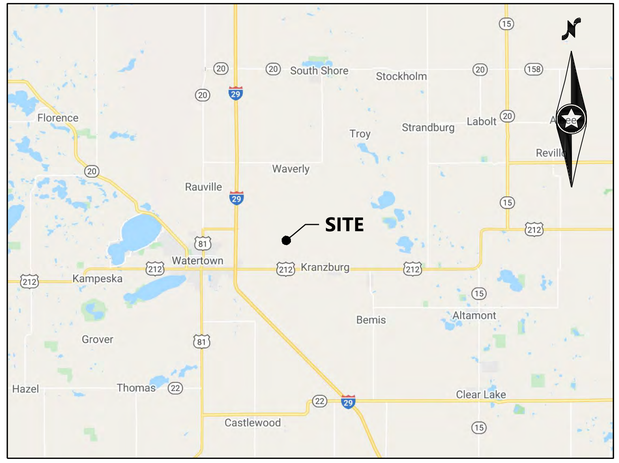
Crowned Ridge II Wind Farm

Codington, Deuel, Grant Counties, South Dakota

Record Civil Plans

REGIONAL MAP

VICINITY MAP



RECORD CIVIL PLANS

CONFORMING TO CONSTRUCTION RECORDS PROVIDED BY BLATTNER AND FIELD SURVEY, PROVIDED BY BLATTNER, COMPLETED OCTOBER 2020. PLANS DO NOT INCLUDE COLLECTION.

DATA SET INFORMATION

BASE FILE	FILE NAME / NOTES	PROVIDER	DATE
AERIAL IMAGE	AERIAL.jp2	Public	3/25/2020
LAND CONTROL	CROWNED RIDGE WIND II LLC - 200MW TURBINE SITE PLAN ISSUED 02-05-2020.KMZ	Blattner	3/26/2020
ALTA SURVEY	*	*	*
TOPOGRAPHY	2020-03-23 Data Gateway (1 Meter)	Blattner	3/23/2020
TURBINE ARRAY	Crowned Ridge II Road & Turbine As Built.dwg	Blattner	10/15/2020
UNDERGROUND COLLECTION	CROWNED RIDGE WIND II LLC - 200MW TURBINE SITE PLAN ISSUED 04-06-2020	Blattner	5/8/2020
GEN-TIE	CROWNED RIDGE WIND II LLC - 200MW TURBINE SITE PLAN ISSUED 02-05-2020.KMZ	Blattner	2/26/2020
STREAMS/WETLANDS	CROWNED RIDGE WIND II LLC - 200MW TURBINE SITE PLAN ISSUED 04-06-2020	Blattner	5/8/2020
CULTURAL RESOURCES	CROWNED RIDGE WIND II LLC - 200MW TURBINE SITE PLAN ISSUED 04-06-2020	Blattner	5/8/2020
FEMA INFO	S_WTR_LN.shp	Blattner	3/24/2020

CONTACT INFORMATION

PROJECT ROLE	CONTACT NAME	COMPANY	PHONE
PROJECT MANAGER	ALEX ALVARADO	WESTWOOD	(214) 473-4648
ENGINEER OF RECORD	ROB COPOULS	WESTWOOD	(952) 906-7470
CONTRACTOR	JASON ZIERDEN	BLATTNER	

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ISSUE FOR RECORD

NO	REVISION	ZONE	DATE	BY	CHK	ENG
0	ISSUED FOR CONSTRUCTION		5/29/2020	MDR	AA	MDR
1	ISSUED FOR RECORD - CROWNED RIDGE 22590		11/12/2020	MDR	AA	MDR

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REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

DWN: MDR	DATE: 11/12/2020	CHK: AA	DATE: 11/12/2020
ENG: MDR	DATE: 11/12/2020	CHK:	DATE:
PM: AA	DATE: 11/12/2020	PROJ. NO: 22590	
APVD:	DATE:	SCALE: NONE	

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

COVER

NH-275900-1-1

REV 1

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NH-275900-8-40	Civil Site Plan T-73, T-74, T-75
NH-275900-8-41	Civil Site Plan T-85
NH-275900-8-42	Civil Site Plan T-84, T-86, T-87, ADLS-2
NH-275900-8-43	Civil Site Plan T-79, T-80, T-83, MET-1
NH-275900-8-44	Civil Site Plan T-82
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

SHEET LIST

NH-275900-1-2

REV 1

PERMANENT DRAINAGE CROSSING SCHEDULE

Crossing Number	50-Year LWC
DC-4	STANDARD DUTY
DC-6	STANDARD DUTY
DC-9	STANDARD DUTY
DC-10	STANDARD DUTY
DC-13	STANDARD DUTY
DC-14	STANDARD DUTY
DC-18	STANDARD DUTY
DC-20	STANDARD DUTY
DC-21	STANDARD DUTY
DC-24	STANDARD DUTY
DC-26	STANDARD DUTY
DC-27	STANDARD DUTY
DC-29	STANDARD DUTY
DC-32	STANDARD DUTY
DC-34	STANDARD DUTY
DC-37	STANDARD DUTY
DC-39	STANDARD DUTY
DC-41	STANDARD DUTY
DC-42	STANDARD DUTY
DC-43	STANDARD DUTY
DC-44	STANDARD DUTY
DC-45	STANDARD DUTY
DC-46	STANDARD DUTY
DC-48	STANDARD DUTY
DC-49	STANDARD DUTY
DC-50	STANDARD DUTY
DC-51	STANDARD DUTY
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DC-53	STANDARD DUTY
DC-55	STANDARD DUTY
DC-56	STANDARD DUTY
DC-57	STANDARD DUTY
DC-59	STANDARD DUTY
DC-60	STANDARD DUTY
DC-61	STANDARD DUTY
DC-63	STANDARD DUTY
DC-64	STANDARD DUTY
DC-65	STANDARD DUTY
DC-66	STANDARD DUTY
DC-70	STANDARD DUTY

Crossing Number	50-Year LWC
DC-71	STANDARD DUTY
DC-72	STANDARD DUTY
DC-73	STANDARD DUTY
DC-74	REFER TO RD11
DC-75	STANDARD DUTY
DC-76	REFER TO RD11
DC-77	STANDARD DUTY
DC-78	STANDARD DUTY
DC-79	STANDARD DUTY
DC-80	STANDARD DUTY
DC-81	STANDARD DUTY
DC-82	STANDARD DUTY
DC-83	STANDARD DUTY
DC-84	STANDARD DUTY
DC-85	STANDARD DUTY
DC-86	STANDARD DUTY
DC-87	STANDARD DUTY
DC-88	STANDARD DUTY
DC-89	STANDARD DUTY
DC-90	STANDARD DUTY
DC-91	STANDARD DUTY
DC-92	STANDARD DUTY
DC-93	STANDARD DUTY
DC-94	STANDARD DUTY
DC-95	STANDARD DUTY

ENTRANCE CULVERT SCHEDULE

Road #	Entrance Size
T-06	18" CMP
T-07	18" CMP
T-14	18" CMP
T-19	18" CMP
T-21	12" HDPE
T-26	18" CMP
T-29	18" CMP
T-31	18" CMP
T-32	40" RCP
T-39	18" CMP
T-42	18" CMP
T-43	18" CMP
T-44	18" CMP
T-48	18" CMP
T-51	18" CMP
T-52	24" CMP
T-56	18" CMP
T-57	18" CMP
T-57	18" CMP
T-66	18" CMP
BETWEEN T-70, T-66	18" CMP
T-74	18" CMP
T-77	18" CMP
T-80	18" CMP
T-81	18" CMP

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

DRAINAGE CROSSING SCHEDULE

NH-275900-2-1

REV 1

TURBINE ARRAY

Turbine ID	Northing (m)	Easting (m)	Elevation (ft)
WTG-01	377225.55	2756805.91	1930
WTG-02	378603.61	2759466.79	1928.8
WTG-03	378797.31	2762078.76	1935
WTG-04	380335.64	2753521.77	1892.9
WTG-05	380318.72	2757512.16	1934.3
WTG-06	381061.38	2767858.26	1898.3
WTG-07	380999.91	2778197.72	1901.3
WTG-08	388176.08	2761188.57	1950.5
WTG-09	385889.28	2764078.85	1946.2
WTG-10	385784.85	2767474.78	1921
WTG-11	386173.96	2771882.52	1923.1
WTG-12	386667.48	2774606.34	1932.4
WTG-13	386355.59	2776963.39	1924.1
WTG-14	386304.29	2780503.1	1954.4
WTG-15	387767.45	2784741.62	1955.1
WTG-16	387795.29	2787543.49	1963.5
WTG-17	388730.3	2772989.35	1961.3
WTG-18	389004.83	2776826.28	1963.5
WTG-19	389609.88	2779090.98	1961.2
WTG-20	391966.99	2772821.77	1948.5
WTG-21	392796.93	2777848.55	1995.9
WTG-22	402619.56	2779622.68	2014.3
WTG-23	402958.52	2788559.1	1962.2
WTG-24	405442.03	2775433.15	2016.9
WTG-25	404075.7	2777441.4	2015.3
WTG-26	404779.4	2779930.14	2023.1
WTG-27	405867.51	2788556.67	1947.9
WTG-28	410517.15	2771652.69	1993.8
WTG-29	408408.74	2773893.72	2017.8
WTG-30	406872.61	2777807.25	2012.9

Turbine ID	Northing (m)	Easting (m)	Elevation (ft)
WTG-31	410263.66	2784829.5	1970.5
WTG-32	410452.61	2788432.69	1941.6
WTG-33	408725.49	2793333.16	1896.2
WTG-34	408926.78	2751411.53	1901.8
WTG-35	409344.49	2755370.17	1958
WTG-36	406112.57	2757008.08	1973.7
WTG-37	407381.45	2759315.23	1984.1
WTG-38	412497.6	2750979.82	1891.5
WTG-39	411611.44	2763305.45	1958.8
WTG-40	414599.57	2750005.58	1870.7
WTG-41	414926.71	2756350.93	1918.4
WTG-42	414742.61	2768381.38	1991
WTG-43	413681.75	2773644.49	2017.2
WTG-44	416033.65	2778924.08	1990.4
WTG-45	416105.91	2781540.95	1949.2
WTG-46	414967.92	2785560.57	1956.7
WTG-47	413595.81	2785526.77	1959.3
WTG-48	412511.12	2787193.53	1949.8
WTG-49	418522.27	2773699.67	2010.1
WTG-50	418680.64	2777266.87	2020.3
WTG-51	418557.9	2779752.68	1969.3
WTG-52	418172.88	2785535.07	1934.4
WTG-53	420863.91	2774142.66	2018
WTG-54	420627.96	2777416.47	1996.3
WTG-55	421377.04	2779110.23	1925.7
WTG-56	421445.94	2785146.9	1922.6
WTG-57	419737.68	2766632.4	1954.6
WTG-58	421018.72	2769005.5	1985.4
WTG-59	422486.01	2771091.35	1995.9
WTG-60	423085.56	2774207.07	2014.4

Turbine ID	Northing (m)	Easting (m)	Elevation (ft)
WTG-61	425060.64	2771836	1989.5
WTG-62	428044.96	2756084.05	1924.9
WTG-63	430233.42	2756830.61	1937.5
WTG-64	427386.78	2760652.7	1930.6
WTG-65	427960.35	2762748.46	1947.5
WTG-66	430505.65	2768254.86	2016.3
WTG-67	429699.67	2770742.38	1995.8
WTG-68	429239.34	2775991.33	1946.3
WTG-69	433717.06	2765617.22	1981.1
WTG-70	432988.99	2768681.86	2015.9
WTG-71	435305.67	2768236.1	1980.8
WTG-72	435159.77	2770321.08	1994
WTG-73	434498.29	2772962.73	1970
WTG-74	433345.18	2776533.19	1927
WTG-75	436554.92	2773961.29	1934.5
WTG-76	434893.06	2755292.87	1932.4
WTG-77	435922.56	2759716.41	1945.9
WTG-78	436560.77	2761909.58	1983.3
WTG-79	438106.56	2763343.92	1991.4
WTG-80	438639.41	2765831.35	1995
WTG-81	438975.23	2767805.94	1982.9
WTG-82	441488.87	2757484.79	1957.9
WTG-83	440724.7	2765936.64	1989.5
WTG-84	442156.12	2768219.24	1996.4
WTG-85	441584.92	2776124.62	1913.2
WTG-86	444497.51	2767297.23	1990.4
WTG-87	444138.3	2770487.27	1966.5
WTG-88	447018.51	2767375.02	1992.9
N Radar	444014.06	2769352.35	1987.2
S Radar	391706.2	2777749.97	1992.5

NOTE:

1. TURBINE ARRAY NORTHING AND EASTING VALUES IN THE NSRS 2011 SOUTH DAKOTA STATE PLANES, NORTH ZONE, US FOOT COORDINATE SYSTEM

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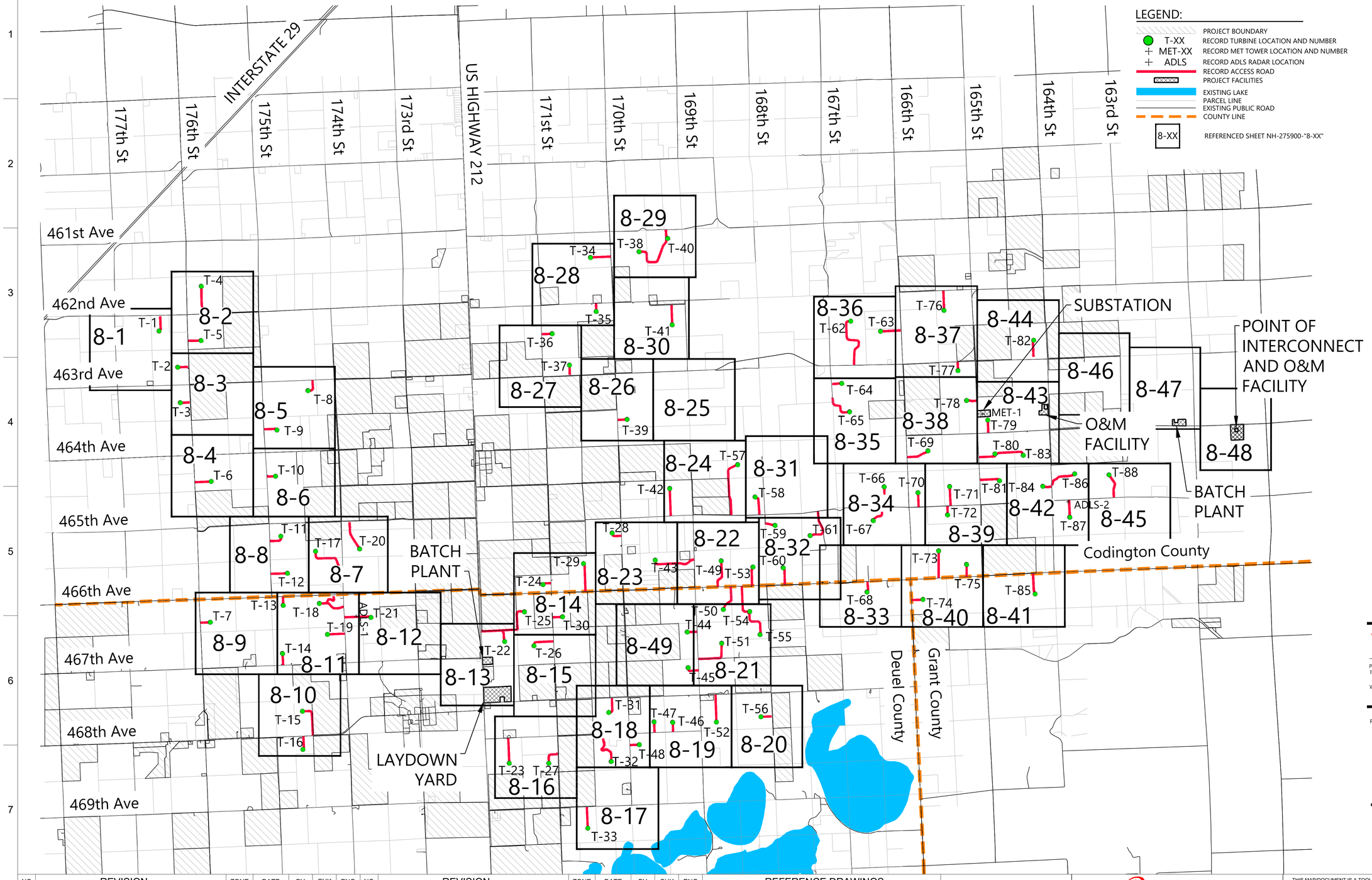
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

TURBINE ARRAY

NH-275900-2-2

REV 1



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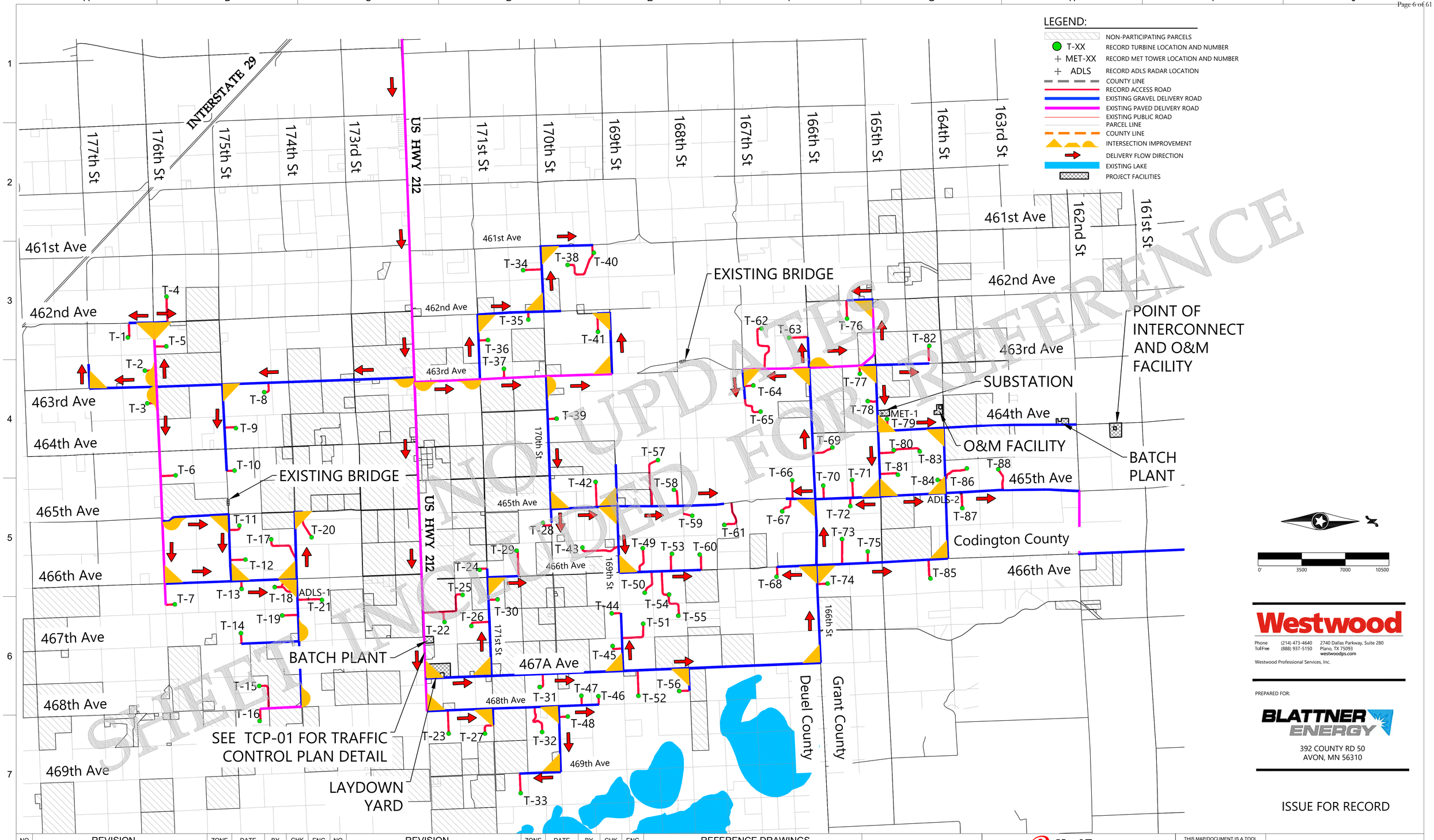
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROAD

OVERALL PLAN

NH-275900-3

REV 1



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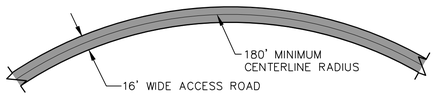
UNIT 0
CIVIL ACCESS ROADS

DELIVERY FLOW PLAN

NH-275900-4

REV 1

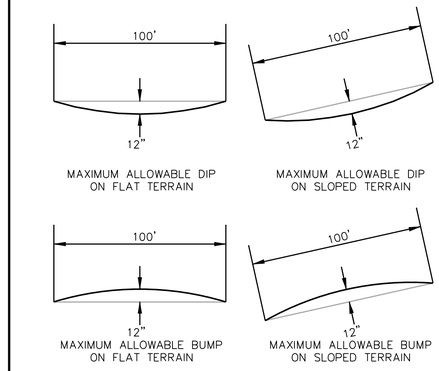
ACCESS ROAD WITHOUT CRANE PATH



NOTE:

1. SOME RADII MAY REQUIRE ADDITIONAL SOIL COMPACTION OR GRAVEL OUTSIDE OF THE WIDTH SHOWN ABOVE TO ACCOMMODATE TRACTORS OR TRAILERS TRACKING OFF THE ACCESS ROAD.

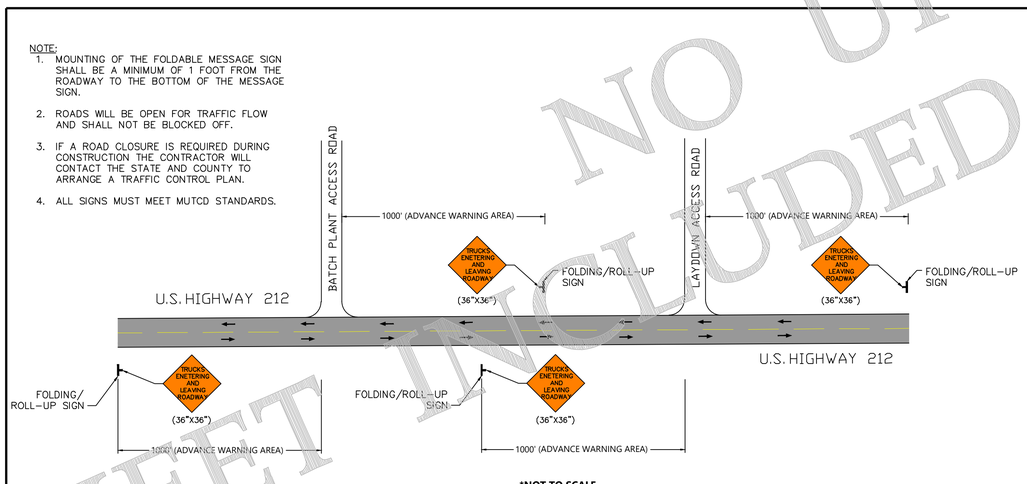
Westwood	MINIMUM RADIUS FOR TURBINE ACCESS ROAD	RD02



Westwood	MAXIMUM DEFLECTION FOR TURBINE ACCESS ROAD	RD04

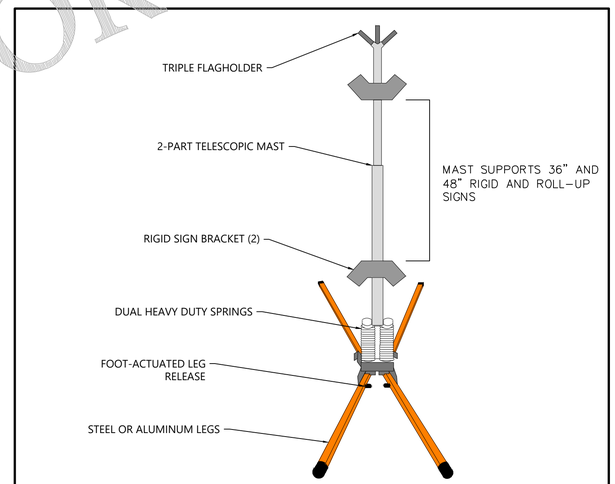
NOTE:

1. MOUNTING OF THE FOLDABLE MESSAGE SIGN SHALL BE A MINIMUM OF 1 FOOT FROM THE ROADWAY TO THE BOTTOM OF THE MESSAGE SIGN.
2. ROADS WILL BE OPEN FOR TRAFFIC FLOW AND SHALL NOT BE BLOCKED OFF.
3. IF A ROAD CLOSURE IS REQUIRED DURING CONSTRUCTION THE CONTRACTOR WILL CONTACT THE STATE AND COUNTY TO ARRANGE A TRAFFIC CONTROL PLAN.
4. ALL SIGNS MUST MEET MUTCD STANDARDS.



*NOT TO SCALE

Westwood	TEMPORARY TRAFFIC CONTROL PLAN - ADVANCE WARNING AREA	TCP-01



Westwood	DUAL SPRING STAND DETAIL	TCP-02

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0	ISSUED FOR CONSTRUCTION		05/29/2020	MDR	AA	MDR
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NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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APVD:	DATE:	SCALE: NONE	

ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CONSTRUCTION DETAILS

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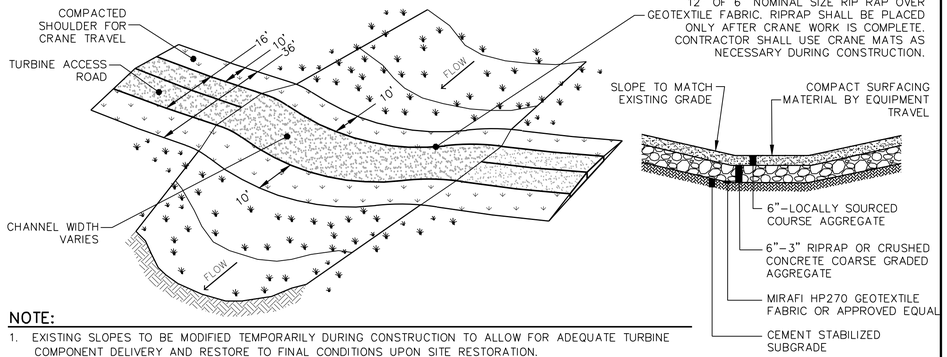
REV 1



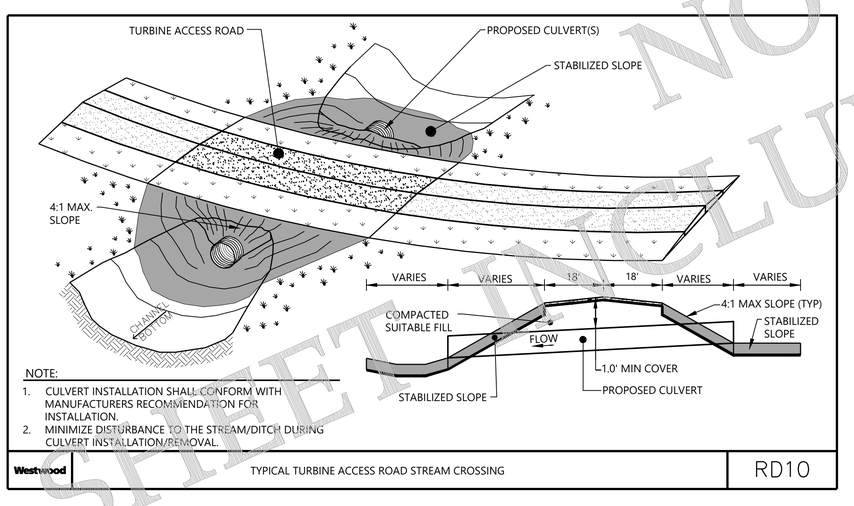
NOTE:

1. EXISTING SLOPES TO BE MODIFIED TEMPORARILY DURING CONSTRUCTION TO ALLOW FOR ADEQUATE TURBINE COMPONENT DELIVERY AND RESTORE TO FINAL CONDITIONS UPON SITE RESTORATION.
2. THE ACCESS ROAD SHALL CROSS THE DITCH AT 90° ANGLE.
3. CROSSING SHALL HAVE THE TOP-MOST SURFACE LAYER A MINIMUM OF 2.5 INCHES BELOW THE STREAM CHANNEL BOTTOM.
4. THE TOP BED OF THE ROCK CROSSING SHALL CONFORM TO THE EXISTING GRADE.
5. MATERIAL THICKNESSES SHOWN ARE MINIMUMS. IT MAY BE NECESSARY TO FIELD ADJUST THICKNESSES TO ACHIEVE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR ANTICIPATED ROAD USE.
6. GRAVEL BAG BERMS MAY BE NECESSARY IF FLOWS AND DRAINAGE AREAS REQUIRE.
7. ENSURE APPROPRIATE SUBGRADE ELEVATION SO THAT THE FINISHED ACCESS ROAD SURFACE ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONDING UPSTREAM OF ROAD OR ON THE ROAD SURFACE.
8. CONTRACTOR TO MODIFY TO FIELD CONDITIONS FOR POSITIVE DRAINAGE. WHEN NEEDED ADD 12" MINIMUM DIAMETER PIPE.
9. LOW WATER CROSSING TO BE ADDED AFTER TURBINE COMPONENT DELIVERY.

Westwood	PERMANENT TURBINE ACCESS ROAD LOW WATER CROSSING	RD11

NOTE:

1. LOW WATER CROSSINGS MAY BE USED IN LIEU OF CULVERT IF EXISTING DITCH IS NOT WELL DEFINED OR MINIMUM COVER OVER THE PIPE CANNOT BE ACHIEVED. SEE DETAIL RD11 FOR DETAIL.
2. CONTRACTOR SHALL PLACE CULVERTS AS NECESSARY FOR TEMPORARY CRANE PATHS CROSSING EXISTING TOWNSHIP AND COUNTY ROADS.



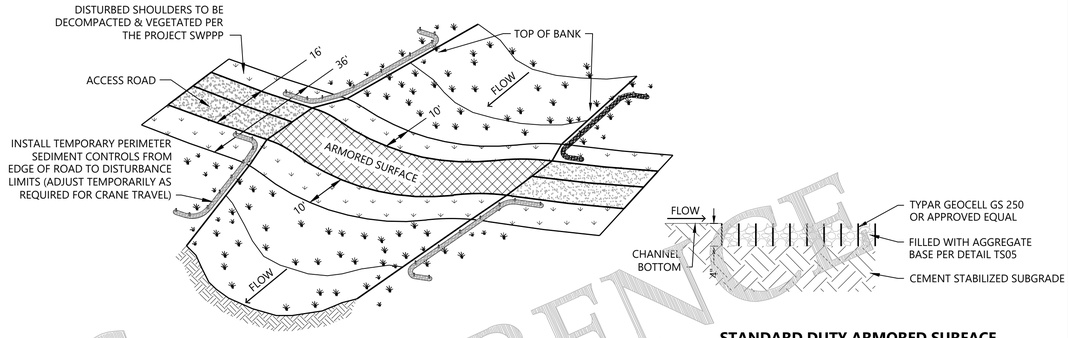
NOTE:

1. CULVERT INSTALLATION SHALL CONFORM WITH MANUFACTURERS RECOMMENDATION FOR INSTALLATION.
2. MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING CULVERT INSTALLATION/REMOVAL.

Westwood	TYPICAL TURBINE ACCESS ROAD STREAM CROSSING	RD10

NOTES:

1. CHANNEL SIDE SLOPES MAY REQUIRE MODIFICATION TO CONSTRUCT THE ACCESS ROAD THROUGH THE CHANNEL TO MEET TURBINE COMPONENT DELIVERY REQUIREMENTS.
2. THE ACCESS ROAD SHALL CROSS THE CHANNEL AS CLOSE TO 90-DEGREES AS POSSIBLE.
3. ENSURE APPROPRIATE SUBGRADE ELEVATION SO THAT THE FINISHED ACCESS ROAD SURFACE ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONDING UPSTREAM OF ROAD OR ON THE ROAD SURFACE.
4. ARMORED SURFACE TREATMENT OF THE ROAD SURFACE SHALL EXTEND THROUGH THE CHANNEL BOTTOM AND UP THE CHANNEL SIDE SLOPES TO THE OBSERVED TOP OF BANK OF THE CHANNEL, UNLESS OTHERWISE NOTED.
5. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBERLOGS (BIOROLLS), WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS.
6. REFER TO DRAINAGE CROSSING SCHEDULE FOR ADDITIONAL INFORMATION.
7. LOW WATER CROSSING TO BE ADDED AFTER TURBINE COMPONENT DELIVERY.



STANDARD DUTY ARMORED SURFACE

Westwood	ACCESS ROAD LOW WATER CROSSING	RD13

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NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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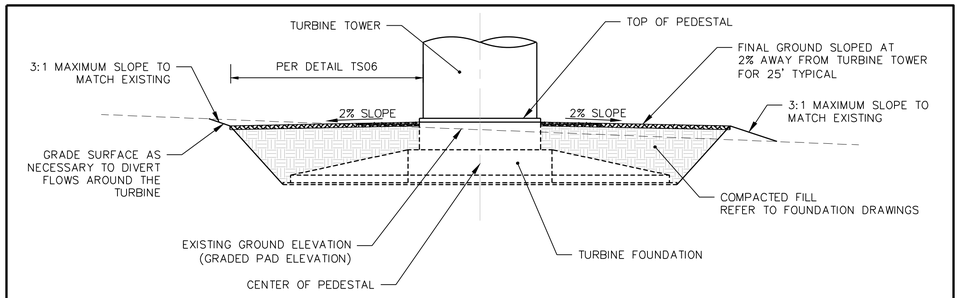
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CONSTRUCTION DETAILS

NH-275900-5-2

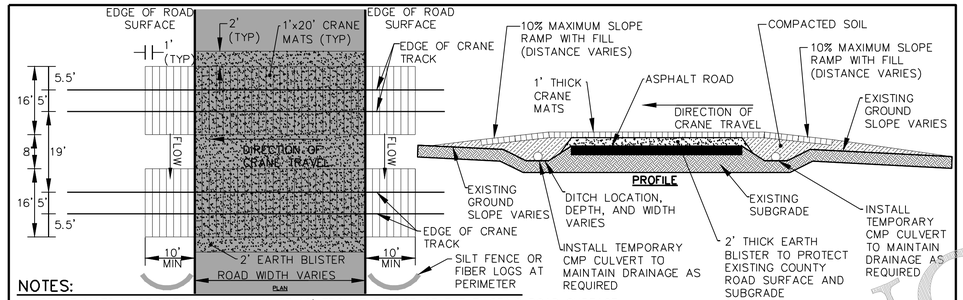
REV 1



NOTES:

1. SET THE TOP OF FOUNDATION PEDESTAL 6" (MAXIMUM) AT CENTERLINE OF FOUNDATION ABOVE EXISTING GROUND ELEVATION OR GRADED PAD ELEVATION.
2. GRADE FINAL GROUND AROUND THE BASE OF THE TURBINE TO A MINIMUM 2% SLOPE FOR 25' (TYPICAL) TO PROVIDE DRAINAGE AWAY FROM TURBINE BASE.
3. PROPOSED TOP OF PEDESTAL ELEVATIONS ARE SUBJECT TO CHANGE BASED UPON VERIFICATION OF FIELD CONDITIONS.

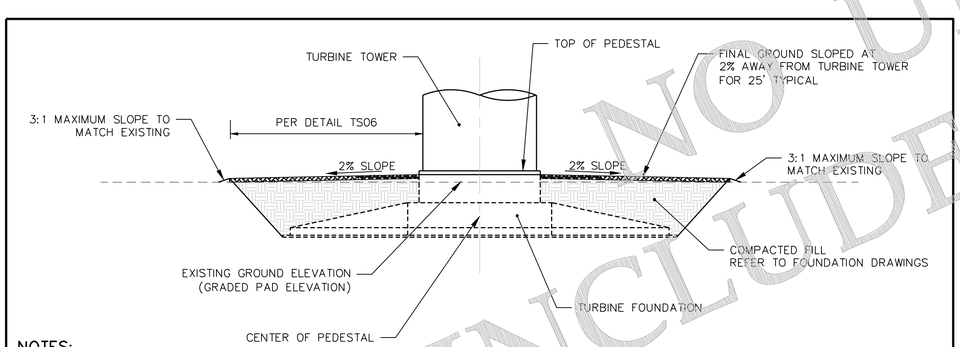
Westwood	TYPICAL FOUNDATION PEDESTAL ELEVATION – GRADED PAD WITH CROSS SLOPE	TS03



NOTES:

1. CRANE MATS MUST EXTEND A MINIMUM OF 10' FROM THE EDGE OF THE EXISTING ROAD SURFACE.
2. EARTH BLISTER TO BE CENTERED UNDER THE CRANE'S TRACKS AND EXTEND A MINIMUM OF 2' OUTSIDE OF THE CRANE MAT FOOTPRINT.
3. ALL DISTURBED AREA WITHIN THE COUNTY ROW TO BE RETURNED TO EXISTING CONDITIONS.
4. ALL DISTURBED AREA TO BE RESTORED ACCORDING TO THE PROJECT SWPPP AND NARRATIVE.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY REPAIRS TO THE ROAD BASED ON DAMAGE CAUSED BY THE CRANE CROSSING.
6. PROVIDE TRAFFIC CONTROL PER THE MUTCD FOR TEMPORARY ROAD CLOSURES.
7. DIMENSIONS SHOWN ARE APPROXIMATE AND MAY CHANGE BASED ON ACTUAL CRANE UTILIZED BY CONTRACTOR.
8. ALTERNATIVE METHODS MAY BE USED FOLLOWING APPROVAL FROM OWNER.
9. CROSSING SHALL BE APPROVED BY THE LOCAL ROAD AUTHORITY PRIOR TO USE.
10. UPON REMOVAL OF CROSSING APPLY SEED AND EROSION CONTROL BLANKET TO FINAL GRADE TO RESTORE DITCHES AND SLOPES TO PRECONSTRUCTION CONDITION.

Westwood	TEMPORARY CRANE CROSSING FOR EXISTING ASPHALT ROADS	EP01

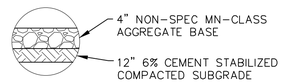


NOTES:

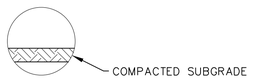
1. SET THE TOP OF FOUNDATION PEDESTAL 6" (MAXIMUM) AT CENTERLINE OF FOUNDATION ABOVE EXISTING GROUND ELEVATION OR GRADED PAD ELEVATION.
2. GRADE FINAL GROUND AROUND THE BASE OF THE TURBINE TO A MINIMUM 2% SLOPE FOR 25' (TYPICAL) TO PROVIDE DRAINAGE AWAY FROM TURBINE BASE.
3. PROPOSED TOP OF PEDESTAL ELEVATIONS ARE SUBJECT TO CHANGE BASED UPON VERIFICATION OF FIELD CONDITIONS.

Westwood	TYPICAL FOUNDATION PEDESTAL ELEVATION – GRADED PAD WITH NO SLOPE	TS04

SECTION AS PROVIDED BY BLATTNER IN BID DOCUMENTS. ENGINEERING DESIGN HAS NOT BEEN PERFORMED BY WESTWOOD



ACCESS ROAD CROSS SECTION



TEMPORARY TURNING IMPROVEMENTS CROSS SECTION

NOTES:

1. STRUCTURAL SECTIONS SHOWN ARE BASED ON AN AGREEMENT BETWEEN BLATTNER AND NEXTERA. THE ROAD DESIGNED IS FOR TURBINE ACCESS ROADS ONLY.
2. REFER TO THE CONSTRUCTION NOTES FOR AGGREGATE GRADATIONS AND ATTERBERG LIMIT REQUIREMENTS.
3. CONTRACTOR SHALL SUBMIT GRADATIONS TO ENGINEER FOR APPROVAL.
4. ELECTRICAL DESIGNER MAY SPECIFY SPECIAL AGGREGATE IN LIEU OF DOT CLASS 5 TO ADDRESS " STEP AND TOUCH". VERIFY WITH ELECTRICAL DESIGNER FOR GRAVEL RING AGGREGATE TYPE.

Westwood	TYPICAL STRUCTURAL CROSS SECTIONS (TYPICAL)	TS05

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NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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ENERGY SUPPLY
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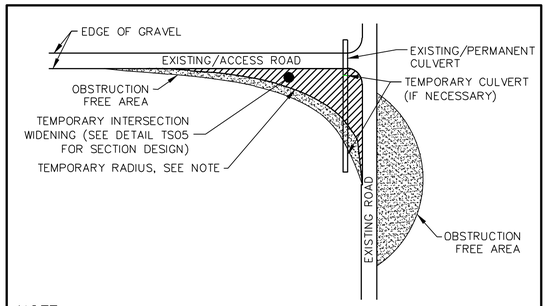
UNIT 0
CIVIL ACCESS ROADS

CONSTRUCTION DETAILS

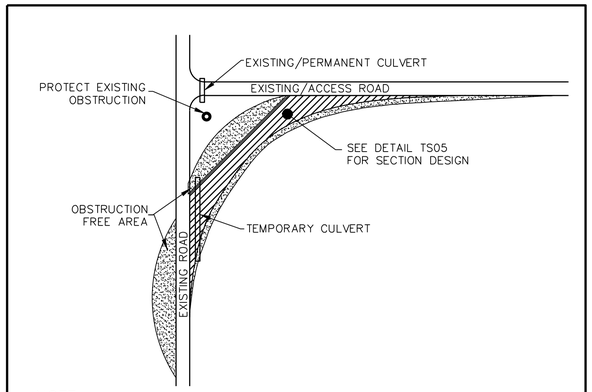
NH-275900-5-3

REV 1



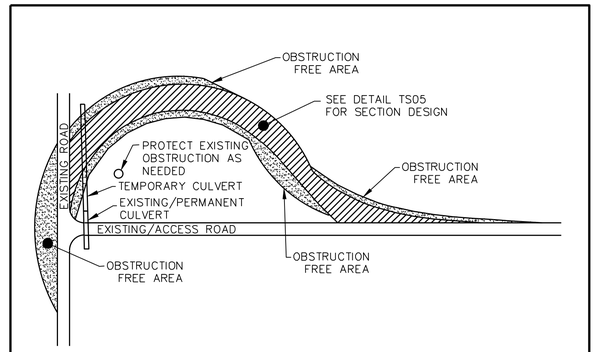
NOTE:
1. UPON DELIVERY VEHICLE COMPLETION, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERT TO BE REMOVED AND ALL DISTURBED AREA RESTORED TO NATIVE CONDITIONS.
2. CULVERTS AND SILT FENCE SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING COUNTY DITCH.
3. FOR DIMENSIONS, SEE THE GE RENEWABLE ENERGY DETAIL FOR THE GE127 TURBINE.

Westwood	TURBINE ACCESS ROAD TYPICAL INTERSECTION WIDENING (TYPICAL)	GE01–A



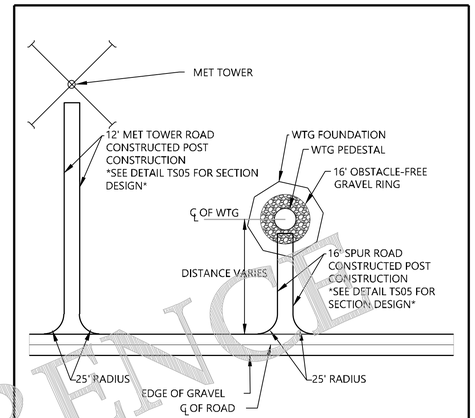
NOTE:
1. UPON DELIVERY VEHICLE COMPLETION, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERT TO BE REMOVED AND ALL DISTURBED AREA RESTORED TO NATIVE CONDITIONS.
2. CULVERTS AND SILT FENCE SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING COUNTY DITCH.
3. FOR DIMENSIONS, SEE THE GE RENEWABLE ENERGY DETAIL FOR THE GE127 TURBINE.

Westwood	TRUCK TRAFFIC TURNING LANE SWEEP (TYPICAL)	GE01–B

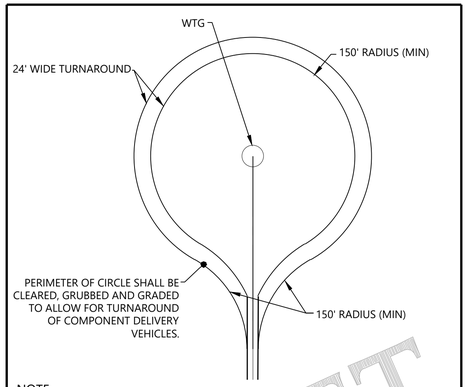


NOTE:
1. UPON DELIVERY VEHICLE COMPLETION, TEMPORARY INTERSECTION WIDENING AND TEMPORARY CULVERT TO BE REMOVED AND ALL DISTURBED AREA RESTORED TO NATIVE CONDITIONS.
2. CULVERTS AND SILT FENCE SHALL BE INSTALLED AND MAINTAINED AT INTERSECTIONS WHERE THE ACCESS ROAD IS CROSSING AN EXISTING COUNTY DITCH.
3. FOR DIMENSIONS, SEE THE GE RENEWABLE ENERGY DETAIL FOR THE GE127 TURBINE.

Westwood	TRUCK TRAFFIC TURNING LANE SWEEP (TYPICAL)	GE01–C

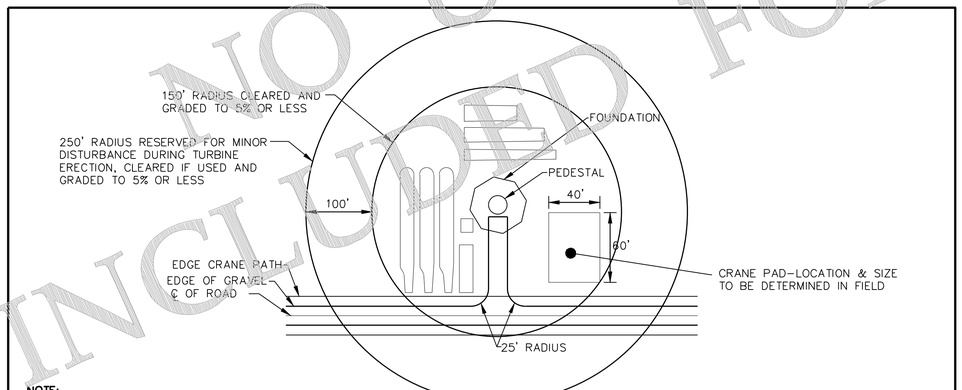


Westwood	TYPICAL SPUR AND MET TOWER ROAD (TYPICAL)	TS06



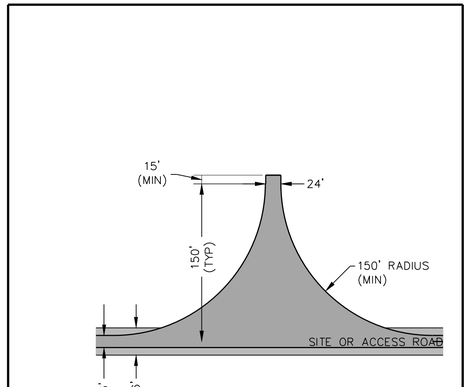
NOTE:
1. LOCATIONS OF CIRCULAR TURNAROUND SHALL BE FIELD FIT.
2. COMPONENTS SHALL BE STAGED BY THE CONTRACTOR TO FACILITATE ERECTION SEQUENCE.

Westwood	PROPOSED CIRCULAR TURNAROUND (TYPICAL)	TS09



NOTE:
1. ACTUAL CRANE PAD LOCATION TO BE DETERMINED BY CONTRACTOR PER CRANE MANUFACTURER SPECIFICATIONS.
2. DISTANCE BETWEEN CENTER OF TURBINE AND EDGE OF GRAVEL ROAD VARIES BY TURBINE SITE.
3. CRANE PAD SPECIFICATIONS BY OTHERS.

Westwood	TYPICAL WTG SITE – PLAN VIEW (TYPICAL)	TS01



Westwood	TEMPORARY HAMMERHEAD TURNAROUND	TS10

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UNIT 0
CIVIL ACCESS ROADS

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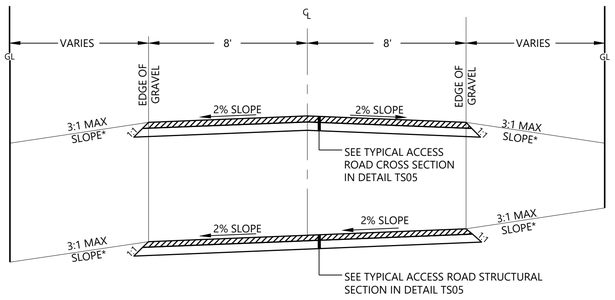
REV 1

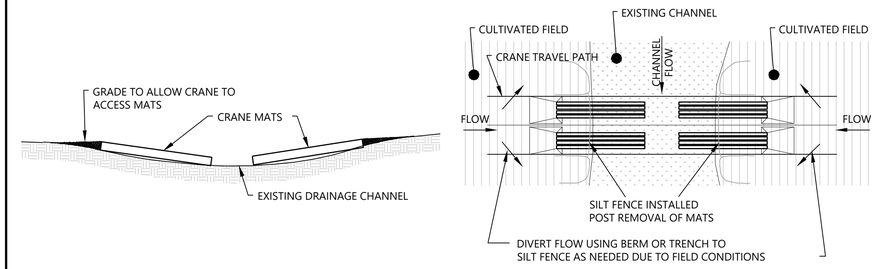


*TO MATCH EXISTING GROUND

NOTES:

1. CONTRACTOR SHALL CONSTRUCT CROSS-SLOPE ROAD SECTION WHERE ACCESS ROADS ARE CONSTRUCTED ON A SIDE SLOPE (PARALLEL TO CONTOUR), AND WHERE OTHERWISE NOTED ON PLANS, TO ENSURE THAT ROADS AND SHOULDERS REMAIN WELL DRAINED AT ALL TIMES.
2. 2% CROWN WILL BE INITIATED BY THE CEMENT TREATMENT SUBCONTRACTOR.

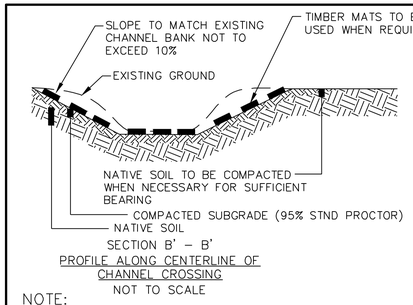
Westwood	TYPICAL TURBINE ACCESS ROAD SECTION	RD01–B

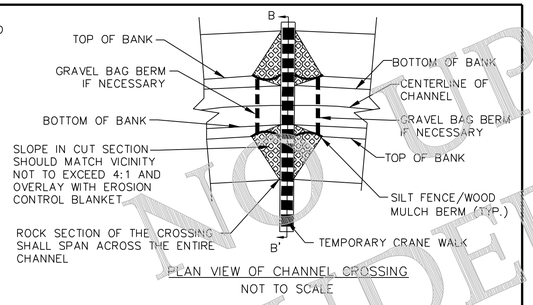


NOTE:

1. CRANE MATS SHALL BE SPACED TO ALLOW EXISTING DRAINAGE TO FLOW THROUGH CHANNEL.

Westwood	TEMPORARY CRANE TRAVEL ACROSS EXISTING CHANNEL WITH CRANE MATS	RD11A

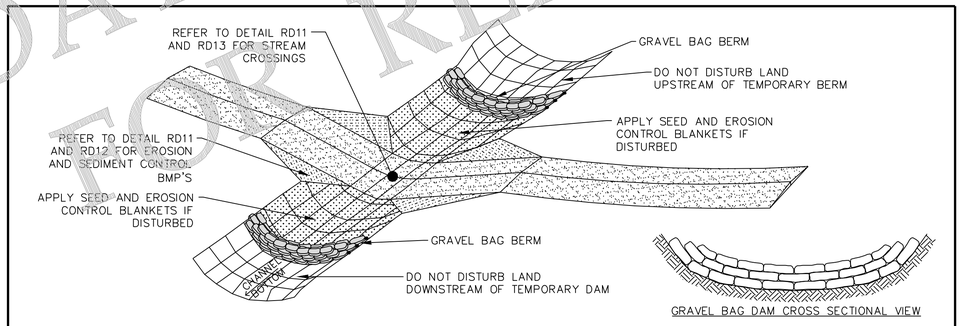




NOTE:

1. CHANNEL SLOPES TO BE MODIFIED TEMPORARILY (NON JURISDICTIONAL WATERS/WETLANDS ONLY) DURING CONSTRUCTION TO ALLOW FOR CRANE CROSSING AND RESTORE TO ORIGINAL CONDITIONS UPON SITE RESTORATION.
2. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS.
2. CROSSINGS SHALL HAVE THE TOP-MOST SURFACE LAYER A MINIMUM OF 2.5 INCHES BELOW THE STREAM CHANNEL BOTTOM.
3. THE CRANE WALK SHALL CROSS THE DITCH AT 90° ANGLE.
4. THE TOP BED OF THE CHANNEL CROSSING SHALL CONFORM TO THE EXISTING DITCH CROSS SECTIONAL SLOPES.
5. COMPACTION MAY BE FIELD ADJUSTED TO ACHIEVE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR ANTICIPATED ROAD USE AS FIELD DETERMINED BY THE CRANE SUPERINTENDENT.
6. GRAVEL BAG BERMS MAY BE NECESSARY IF FLOWS AND DRAINAGE AREAS REQUIRE. SEE DETAIL RD14 FOR GRAVEL BAG BERM INSTALLATION.

Westwood	STREAM/WATERBODY/DRAINAGE SWALE TIMBER MAT CRANE CROSSING	RD12



NOTE:

1. REFER TO DETAIL RD11 AND RD13 FOR STREAM CROSSINGS.
2. MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING GRAVEL BAG BERM INSTALLATION.
3. GRAVEL USED WITHIN THE BAGS SHALL BE PEA ROCK.
4. GRAVEL BAG BERMS SHALL SPAN LATERALLY ACROSS THE STREAM FROM TOP OF BANK TO TOP OF BANK.
5. UPON CRANE TRAVEL COMPLETION, REMOVE GRAVEL BAG BERM AND RESTORE TO ORIGINAL CONDITION.
6. GRAVEL BAG BERMS MAY BE NECESSARY IF FLOWS AND DRAINAGE AREAS REQUIRE.

Westwood	TEMPORARY GRAVEL BAG BERM AT DRAINAGE CROSSING LOCATIONS	RD14

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1	ISSUED FOR RECORD - CROWNED RIDGE 22590		11/12/2020	MDR	AA	MDR

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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PM: AA	DATE: 11/12/2020	PROJ. NO: 22590	
APVD:	DATE:	SCALE: NONE	

ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CONSTRUCTION DETAILS

NH-275900-5-5

REV 1

ROAD DESIGN PARAMETERS

1. AGGREGATE-SURFACE ROADS WILL REQUIRE ONGOING MAINTENANCE TO KEEP THEM IN A SERVICEABLE CONDITION, REGARDLESS OF AGGREGATE THICKNESS AND SUBGRADE PREPARATION.
2. IT IS NOT PRACTICAL TO DESIGN AN AGGREGATE SECTION OF ADEQUATE THICKNESS THAT PREVENTS ONGOING MAINTENANCE.
3. RUTS, DEPRESSIONS, AND SOFT SUBGRADE MUST BE REPAIRED AS NEEDED TO FACILITATE TRAFFIC DURING CONSTRUCTION AND OVER THE LIFE OF THE PROJECT.

PRODUCTS

1. TURBINE ACCESS ROAD BASE SHALL CONSIST OF LOCALLY SOURCED AGGREGATE MEETING THE GRADATION PROVIDED IN TABLE 1.
2. LAYDOWN YARD/BATCH PLANT AGGREGATE BASE SHALL CONSIST OF LOCALLY SOURCED AGGREGATE MEETING THE GRADATION PROVIDED IN TABLE 1.
3. ROAD SUBGRADE SHALL CONSIST OF COMPACTED NATIVE SOILS.
4. CULVERTS: SEE PLAN FOR CULVERT LOCATIONS. CULVERTS SHALL BE A MINIMUM 16 GA. SPIRAL CORRUGATED METAL PIPE. TEMPORARY CULVERTS SHALL BE A MINIMUM DUAL WALL HDPE PIPE. CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION AND/OR CODINGTON, DEUEL, AND GRANT COUNTIES.

EXECUTION

1. CLEARING AND GRUBBING
   A. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS.
2. TOPSOIL STRIPPING
   A. ANY TOPSOIL, THAT HAS BEEN STRIPPED, SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS, AS DIRECTED BY THE ENGINEER. ALL TOPSOIL SHALL BE REDISTRIBUTED TO THE LAND OWNER'S PROPERTY OF WHERE IT ORIGINATED FROM.
3. EMBANKMENT CONSTRUCTION
   A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF ONE FOOT HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED FROM THE ACCESS ROAD EXCAVATION (SEE GEOTECHNICAL REPORT FOR RESTRICTIONS), OR ANY SUITABLE, APPROVED SOIL OBTAINED OFFSITE BY CONTRACTOR, AS DIRECTED OR APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 9" FOR COHESIVE SOILS OR 12" FOR GRANULAR SOILS.
   B. SIDE SLOPES GREATER THAN 3:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN OR TO NATURE CONTURE.

STORM WATER DESIGN PARAMETERS

4. SEE SHEET NH-275900-2-2 FOR CULVERT SIZING AND DESIGN PARAMETERS. SEE HYDROLOGY MEMO FOR FURTHER DESIGN CALCULATIONS. CULVERTS SHALL BE MINIMUM 18" CORRUGATED METAL PIPE. TEMPORARY CULVERTS SHALL BE MINIMUM 15" DUAL WALL HDPE PIPE. ALL TEMPORARY PORTIONS OF THE INSTALLED CULVERTS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
5. IT IS EXPECTED THAT CULVERTS WILL BE OVERTOPPED DURING SOME STORMS AND MAINTENANCE WILL BE REQUIRED THROUGH THE LIFE OF THE PROJECT.
6. WHEN INSTALLING DRAINAGE CULVERTS THE CONTRACTOR SHALL USE JUDGEMENT IN SETTING THE FLOW LINE ELEVATIONS AND CULVERT LONGITUDINAL SLOPE. TYPICALLY THE FLOW LINE ELEVATIONS AND LONGITUDINAL SLOPE OF THE CULVERT SHOULD MATCH THE NATURAL GROUND ELEVATIONS AND SLOPE TO ENSURE POSITIVE DRAINAGE. WHEN POSSIBLE ALL CULVERTS SHOULD BE PLACED AT A MINIMUM 0.5% GRADE.
7. ANTICIPATED CULVERT CROSSINGS ARE SHOWN ON THE CONSTRUCTION PLAN. ADDITIONAL CULVERTS MAY NEED TO BE INSTALLED IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED DUE TO CONSTRUCTION ACTIVITIES.
8. CONSTRUCTION DRAINAGE CROSSINGS TO MAINTAIN EXISTING FLOW CHARACTERISTICS OF THE FEATURES. FEATURES SHALL BE GRADED TO PRECONSTRUCTION CONTOURS.

TABLE 1: MNDOT CLASS 5 AGGREGATE - LOCALLY SOURCED

SIEVE SIZE	PERCENT PASSING
1 1/2"	100
3/4"	70-100
3/8"	45-90
NO. 4	35-80
NO. 10	20-65
NO. 40	10-35
NO. 200	3-10

MEET FOLLOWING REQUIREMENTS FOR MNDOT CLASS 5 MATERIAL:

AT LEAST 10 PERCENT BY WEIGHT OF THE AGGREGATE RETAINED ON THE NO. 4 SIEVE HAS AT LEAST ONE MECHANICALLY FRACTURED FACE FOR CLASS 5.

SHALE (MAX %, IF NO. 200 < 7% BY MASS) = 10.0%
SHALE (MAX %, IF NO. 200 > 7% BY MASS) = 7.0%
L.A ABRASION (% MAX) = 40%

MAXIMUM INSOLUBLE RESIDUE FOR THE PORTION OF QUARRIED CARBONATE AGGREGATES PASSING THE NO. 200 SIEVE = 10%

GRADATION HAS BEEN OBTAINED FROM THE 2018 MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 3138

TESTING:

1. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
2. SUBMIT ONE SET OF TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD.
3. CONTRACTOR SHALL MAINTAIN A TESTING LOG TO ENSURE THAT TESTING IS PERFORMED AND RESULTS ARE ACCEPTABLE.

DEFINITIONS:

1. PROOF ROLLING:
   SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK OR WATER TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED BELLY DUMP WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
2. SIEVE ANALYSIS:
   SHALL BE CONDUCTED IN ACCORDANCE WITH AASHTO T27
3. PROCTORS:
   SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T99
4. ATTERBERG LIMITS:
   SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T89 AND T90
5. MOISTURE DENSITY (NUCLEAR DENSITY):
   SHALL BE DONE IN ACCORDANCE WITH AASHTO T310
6. DYNAMIC CONE PENETROMETER (DCP) TESTING:
   SHALL BE DONE IN ACCORDANCE WITH ASTM D6951-03

REQUIREMENTS:

1. FILL MATERIAL:
   A. SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR TESTS (STANDARD DRY MAX DENSITY) IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS.
   B. IN ROADWAY CUT AREAS, OR WHERE EMBANKMENT CONSTRUCTION REQUIRES LESS THAN 12 INCHES OF FILL PLACEMENT, COMPACT TO A MINIMUM OF 95 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY. THE SCARIFICATION DEPTH SHALL BE ADJUSTED SUCH THAT THE COMBINED THICKNESS OF THE EMBANKMENT FILL MATERIAL AND SCARIFICATION DEPTH SHALL BE 12 INCHES OR GREATER.
2. AGGREGATE BASE:
   A. AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL.
   B. PROVIDE 1 SIEVE ANALYSIS (PROJECT MAX OF 20) PER 2500 CY OF ROAD BASE PLACED.
3. CRANE PAD AND CRANE PATHS / CRANE TRAVEL SHOULDERS:
   A. CRANE WALK AND CRANE PAD PREPARATION SPECIFICATION BY CONTRACTOR.

TABLE 2: TESTING SCHEDULE SUMMARY

LOCATION	TEST	FREQUENCY
STRUCTURAL FILL	PROCTOR	1 PER MAJOR SOIL TYPE
COMPACTED SUBGRADE (CEMENT STABILIZED)	PROOF-ROLL	ENTIRE LENGTH
AGGREGATE BASE	PROOF-ROLL	FULL WIDTH OVER ENTIRE LENGTH MIN. 2 PASSES IN EACH LANE
	SIEVE ANALYSIS	4 TOTAL PER TYPE FOR PROJECT

GENERAL NOTES:

1. GROUND SURFACE CONTOURS (AT TWO-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON DATA PROVIDED BY BLATTNER ENERGY. IF MAJOR DISCREPANCIES ARE FOUND IN THE GROUND ELEVATIONS DURING FIELD STAKING TO THE GROUND ELEVATIONS SHOWN ON THE PLANS, THE OWNER AND ENGINEER SHALL BE NOTIFIED.
2. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING DAMAGED PROPERTY MARKERS AND MONUMENTS.
3. EFFORTS SHALL BE MADE TO MINIMIZE SOIL DISTURBANCE TO AREAS OUTSIDE OF THE ROAD GRADING LIMITS, CRANE PATHS, AND TURBINE SITES. TYPICAL DISTURBANCE SHALL BE LIMITED TO APPROXIMATELY 200 L.F. WIDE CORRIDOR FOR PROPOSED ACCESS ROADS AND CRANE TRAVEL PATHS, AND SHALL BE LIMITED TO AN APPROXIMATELY 300 L.F. RADIUS AROUND THE PROPOSED WIND TURBINE GENERATORS.
4. THE CONTRACTOR SHALL MAKE ALL EFFORTS TO KEEP ACTIVITIES WITHIN THE ERECTION AREAS SHOWN ON THE PLANS BUT IT IS UNDERSTOOD THAT SOME ACTIVITIES THAT WILL NOT REQUIRE GRADING OR SOIL DISTURBANCE MAY EXTEND BEYOND THE DEFINED LIMITS. DURING THE ERECTION OF THE ROTOR, TRUCKS AND/OR FORKLIFTS MAY EXTEND BEYOND THESE LIMITS. SEE DETAIL TS01 FOR TYPICAL ERECTION AREAS.
5. FINALIZE GRADING AROUND THE BASE OF TURBINES IN ACCORDANCE WITH DETAILS TS-03 AND TS-04.
6. IF LOCALIZED LOW POINTS ARE ENCOUNTERED DURING TOPSOIL STRIPPING, GRADE SURROUNDING AREA TO MAINTAIN POSITIVE DIRECTION OF DRAINAGE TO MINIMIZE PONDING OF STORMWATER DURING RAINFALL EVENT.
7. ANY FACILITIES REMOVED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS EXISTING.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES CAUSING RAINWATER TO POND. DEPENDING ON FIELD CONDITIONS, ADDITIONAL CULVERTS IN EXCESS OF THOSE ON THE PLANS MAY BE REQUIRED.
9. WHILE BUILDING THE ROADS AND EXCAVATING THE TURBINE FOUNDATIONS, EXCESS SOIL WILL RESULT. THE CONTRACTOR SHALL DISPOSE OF THIS EXCESS SOIL IN AN APPROVED MANNER. EXCESS TOPSOIL SHALL BE DISTRIBUTED INTO A THIN LAYER ON LAND IMMEDIATELY ADJACENT TO WHERE THE TOPSOIL ORIGINATED. ALL EXCESS TOPSOIL TO BE WASTED ONSITE. WHILE DOING SO THE CONTRACTOR SHALL AVOID CAUSING RIDGES OR MOUNDS THAT WOULD MAKE IT DIFFICULT FOR STORM WATER RUNOFF TO DRAIN. THE FINAL SURFACE OF THE DISTURBED TOPSOIL SHALL BE SMOOTH AND FOLLOW THE NATURAL CONTOUR OF THE LAND.
10. THE CONTRACTOR SHALL NOTIFY SOUTH DAKOTA 811 AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
11. TEMPORARY INTERSECTION WIDENING SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION OR UPON NOTIFICATION OF THE ENGINEER, BE REMOVED AND THE AREA RESTORED TO ITS ORIGINAL LINES AND GRADES WITH TOPSOIL REPLACED, EXCEPT WHERE REQUESTED BY THE TOWNSHIP OR COUNTY TO PERMANENTLY REMAIN. DISTURBED AREAS OUTSIDE OF THE FINAL ROADWAY SHALL BE STABILIZED.
12. TURBINE SETBACKS ARE NOT IDENTIFIED ON THE CONSTRUCTION PLANS. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO ENSURE THAT ALL TURBINE SETBACKS MEET PROJECT REQUIREMENTS.
13. ELECTRICAL INFORMATION SHOWN ON THE PLANS IS FOR REFERENCE ONLY. REFER TO ELECTRICAL CONSULTANT'S PLANS FOR SPECIFIC LOCATIONS AND CONSTRUCTION DETAILS FOR THE UNDERGROUND POWER COLLECTION SYSTEM AND SUBSTATION.
14. FINAL GEOTECHNICAL REPORTS WITH RECOMMENDATIONS HAVE BEEN PROVIDED BY THE OWNER. ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL ENGINEERING REPORT AND RECOMMENDATIONS FOR SLOPE STABILITIES.
15. FINAL CRANE PATH ALIGNMENTS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS WITHIN THE WETLAND AND CULTURAL RESOURCE CORRIDORS, SPECIAL LANDOWNER AGREEMENTS AND THE PROJECT BOUNDARY.
16. AN ALTA SURVEY HAS NOT BEEN PROVIDED. CONTRACTOR AND OWNER ARE RESPONSIBLE FOR LOCATING ALL UTILITIES AND VERIFYING LOCATION OF CONSTRUCTION ACTIVITIES PRIOR TO COMMENCING WORK.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

1. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT.
2. ALL PASTURES AND DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE SEEDED IN ACCORDANCE WITH THE SWPP PLAN.
3. TEMPORARY EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TEMPORARY EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES AND THE CROWNED RIDGE II WIND PROJECT STORMWATER POLLUTION PREVENTION PLAN ON FILE. IT IS THE CONTRACTOR'S/OPERATOR'S RESPONSIBILITY TO MAINTAIN COMPLIANCE.
4. ANY DISTURBED AREA SHALL BE STABILIZED PER THE SWPPP.
5. SEED MIX SHOULD BE AGREED UPON BY DEVELOPER AND LAND OPERATOR/OWNER.

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ENERGY SUPPLY
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UNIT 0
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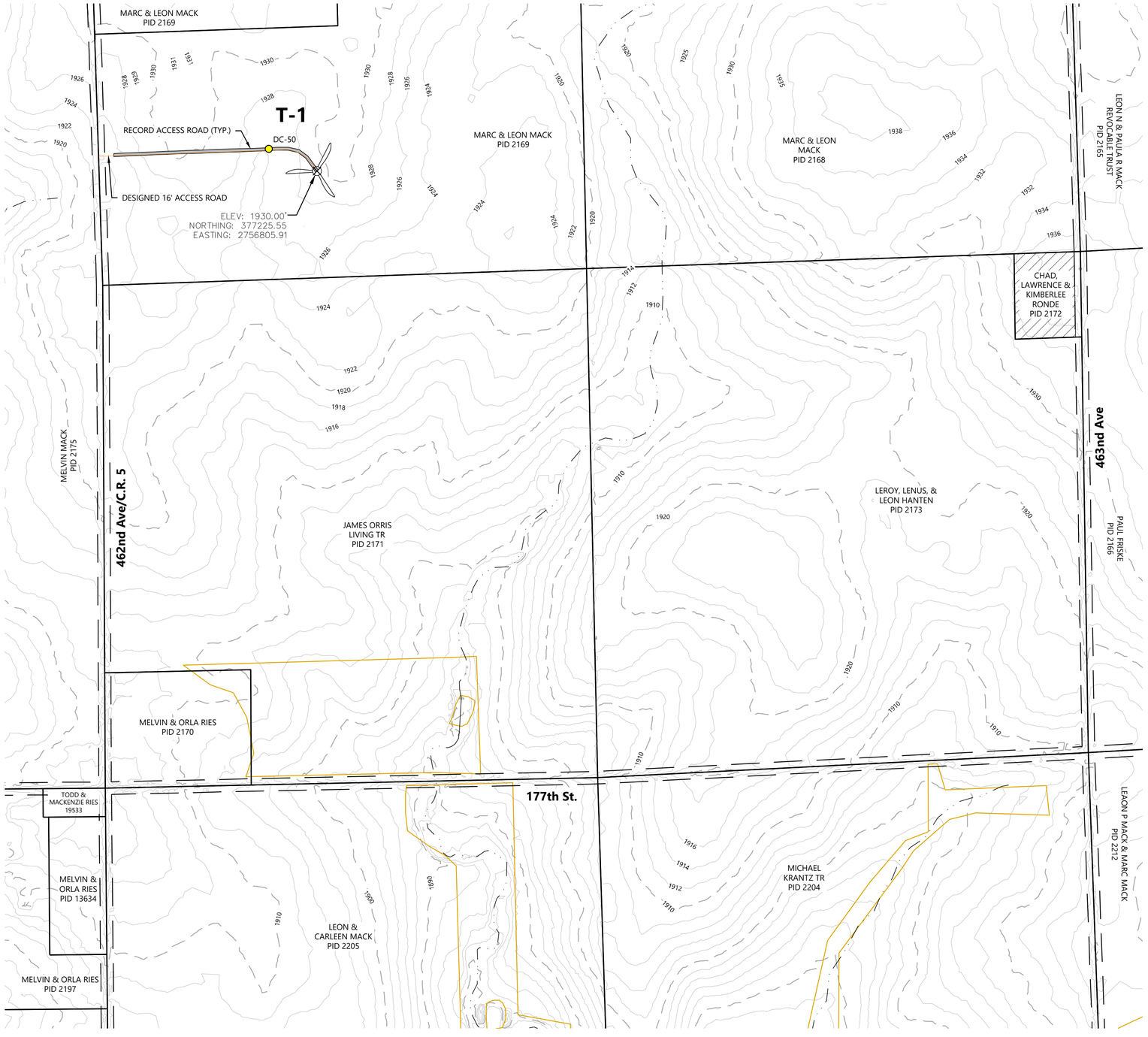
GENERAL NOTES

NH-275900-7

REV 1



LEGEND:

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- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- POH — EX. OVERHEAD POWER
- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
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- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:

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UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-1

NH-275900-8-1

REV 1

SEE SHEET NH-275900-8-3

SEE SHEET NH-275900-8-1

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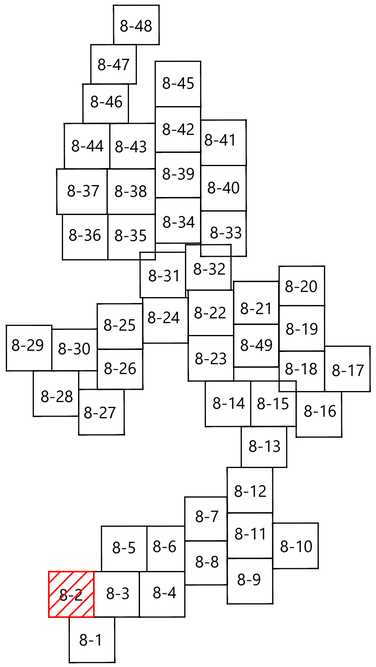

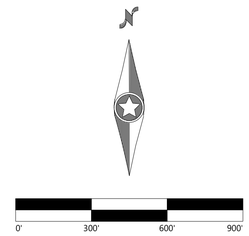

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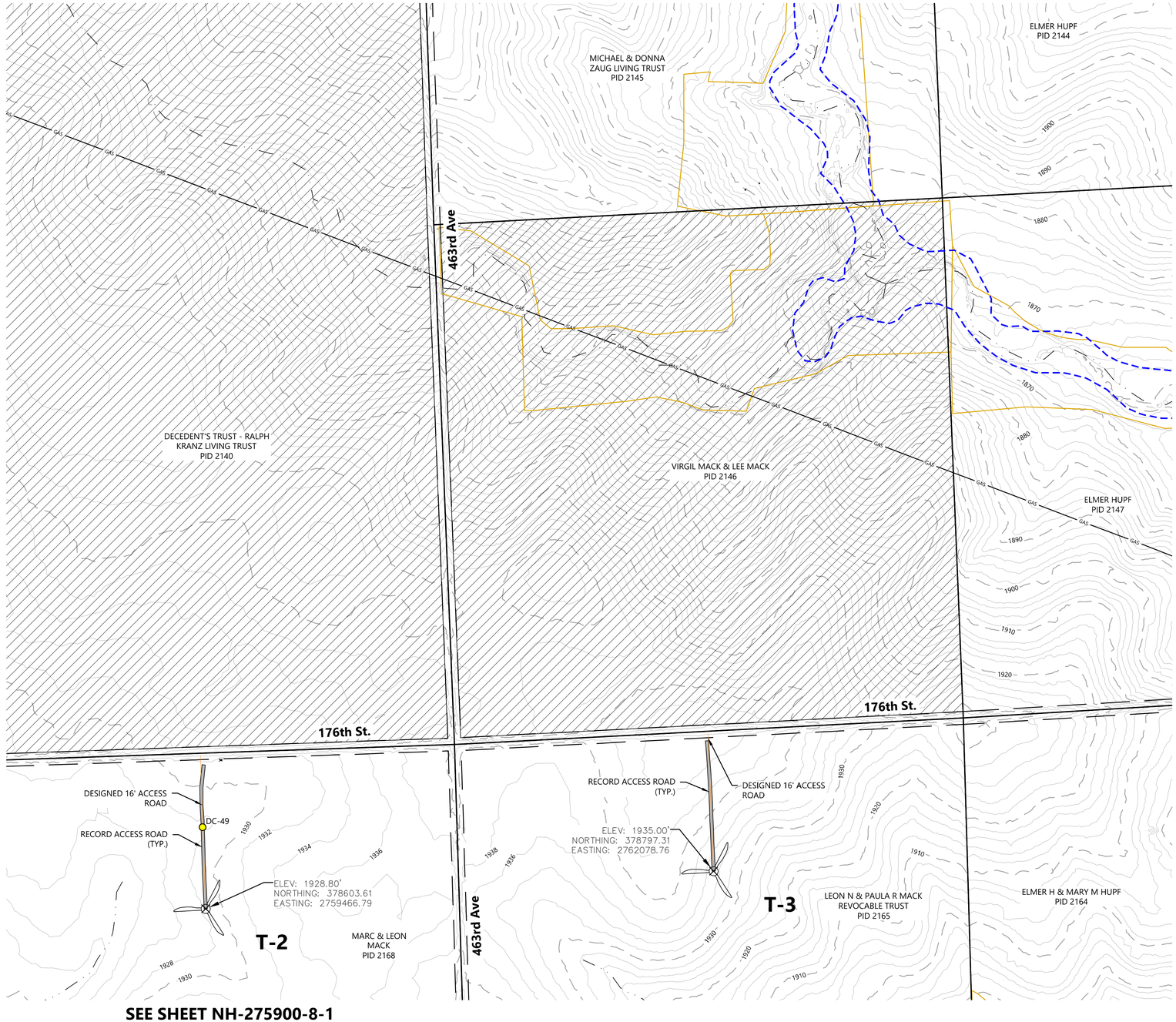
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-4, T-5

NH-275900-8-2

REV 1

SEE SHEET NH-275900-8-5



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1	ISSUED FOR RECORD - CROWNED RIDGE 22590		11/12/2020	MDR	AA	MDR

NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS

DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

DWN: MDR	DATE: 11/12/2020	CHK: AA	DATE: 11/12/2020
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APVD:	DATE:	SCALE: 1" = 300'	

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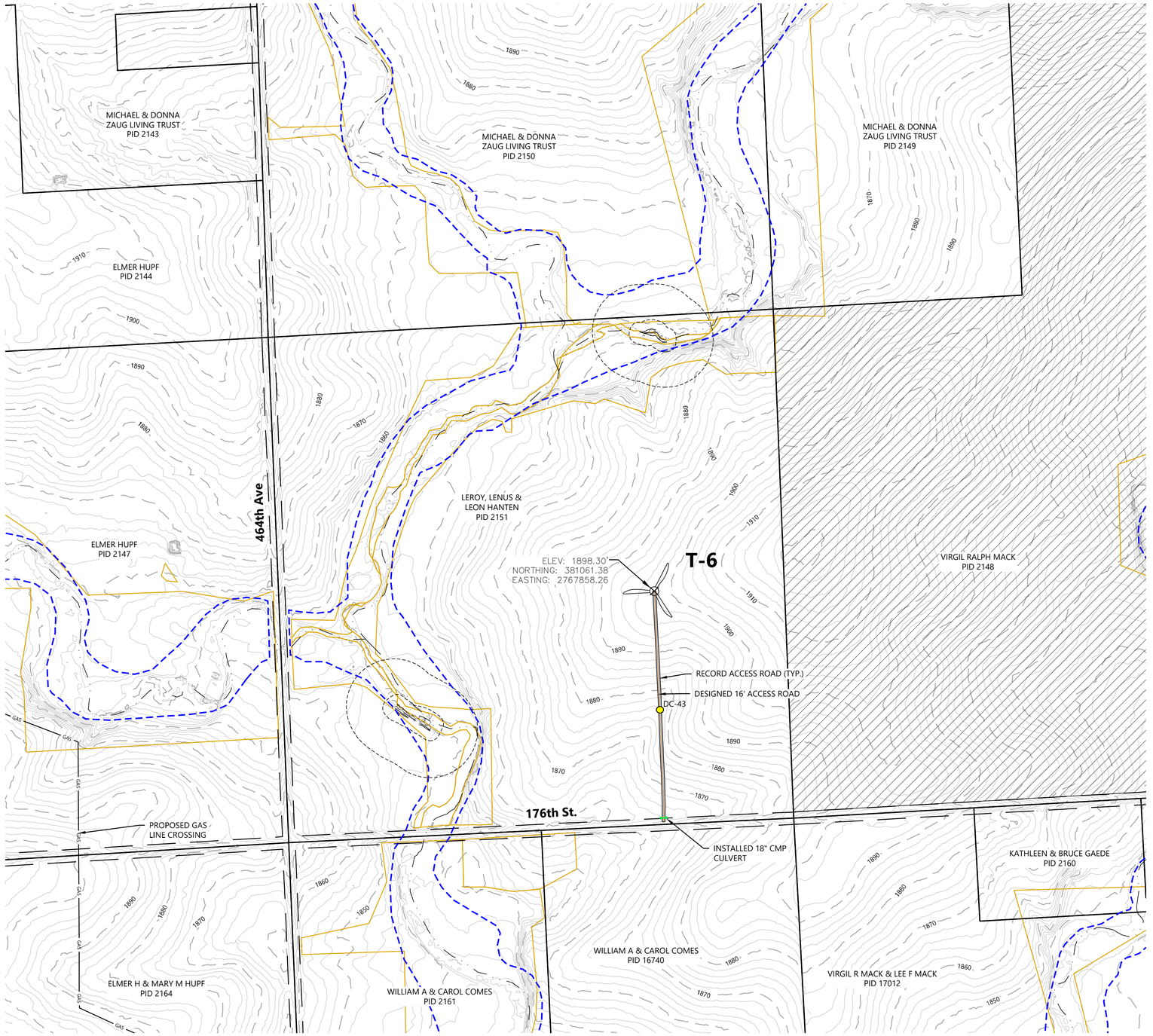
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-2, T-3

NH-275900-8-3

REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION
- DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR

KEY MAP:

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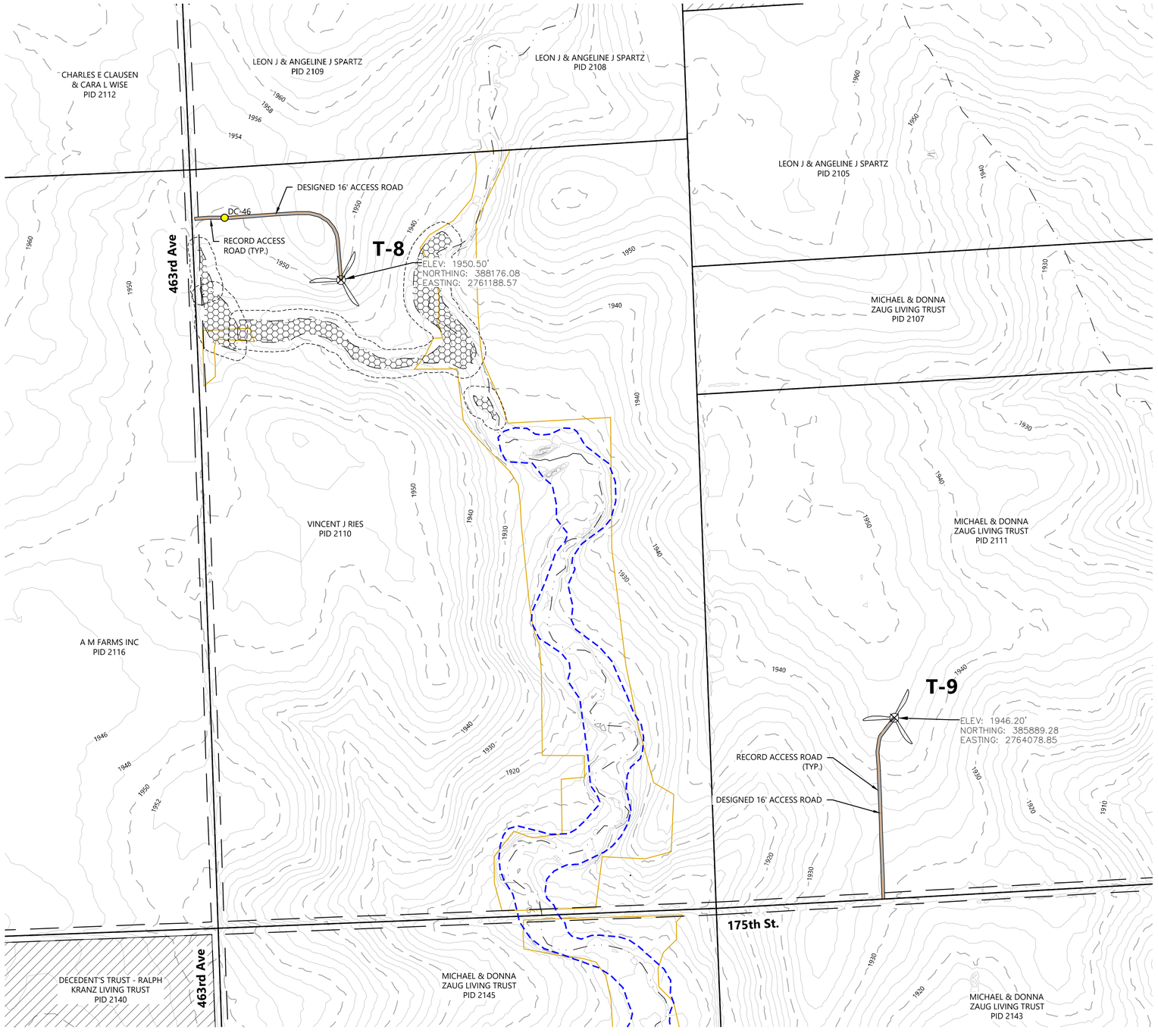
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-6

NH-275900-8-4

REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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- P-POH — DESIGNED OVERHEAD TRANSMISSION
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- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

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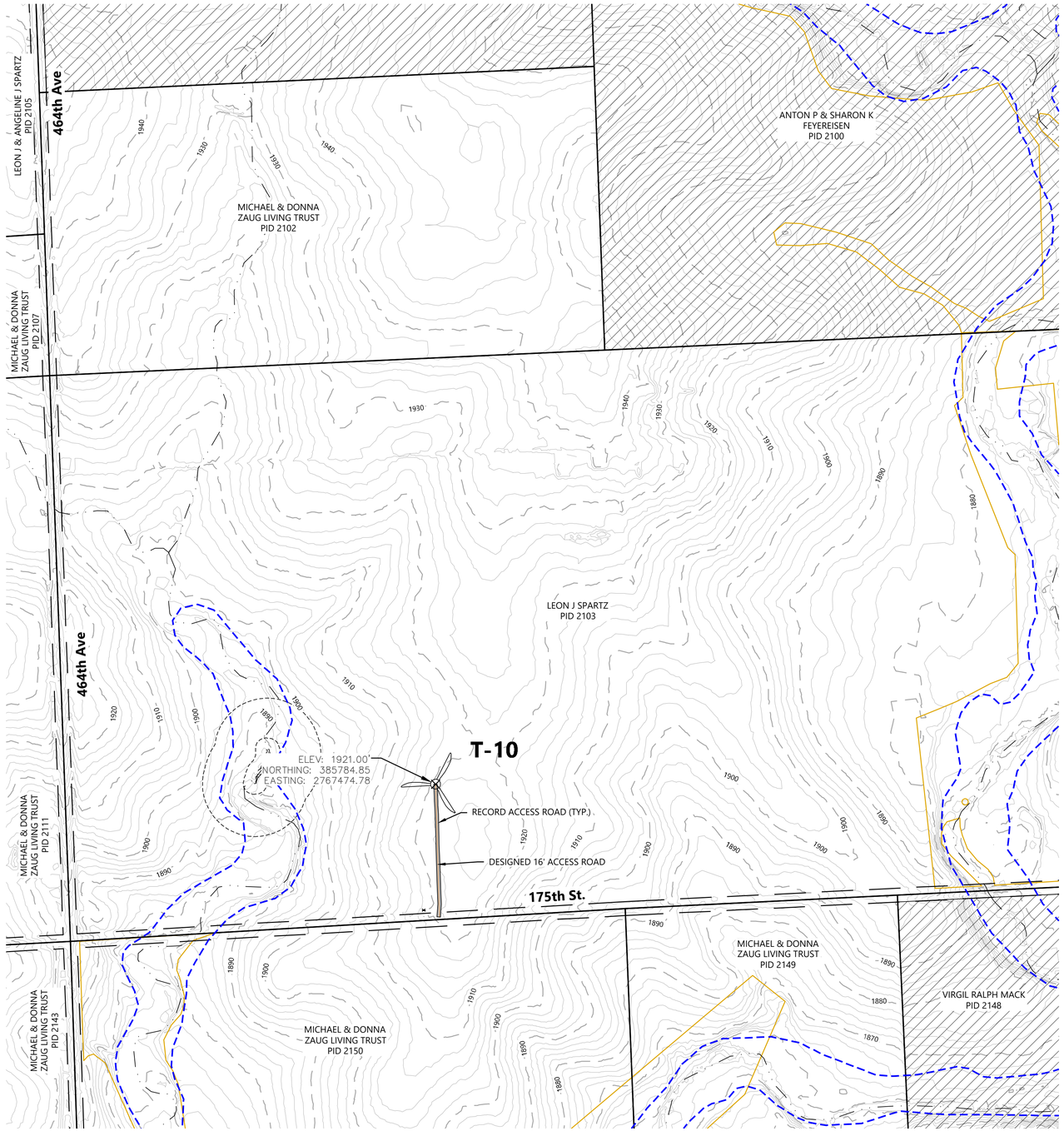
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-8, T-9

NH-275900-8-5

REV 1



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- EXISTING LAKE
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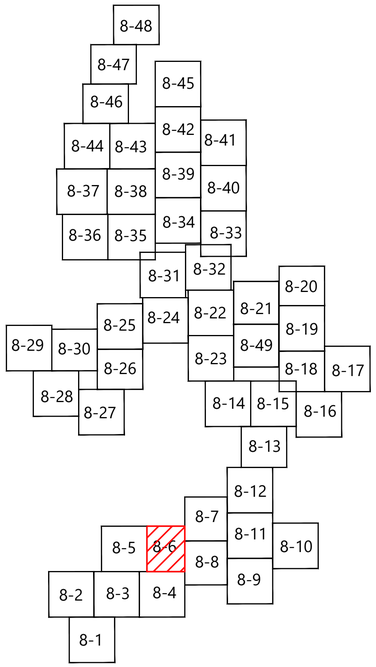
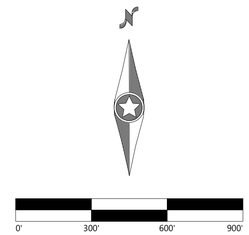
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:





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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-10

NH-275900-8-6

REV 1

SEE SHEET NH-275900-8-12

SEE SHEET NH-275900-8-11

SEE SHEET NH-275900-8-6

SEE SHEET NH-275900-8-8

LEGEND:

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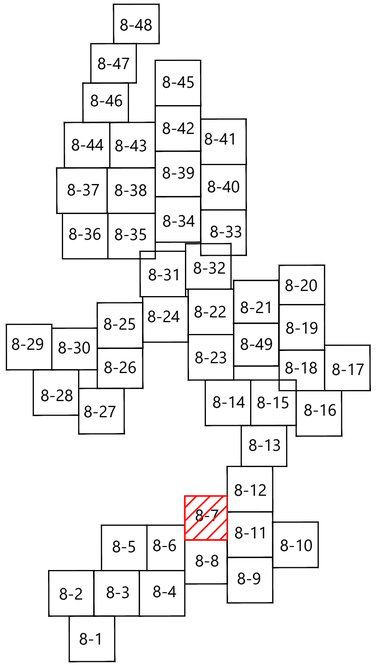
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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Xcel Energy®
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CROWNED RIDGE II WIND FARM
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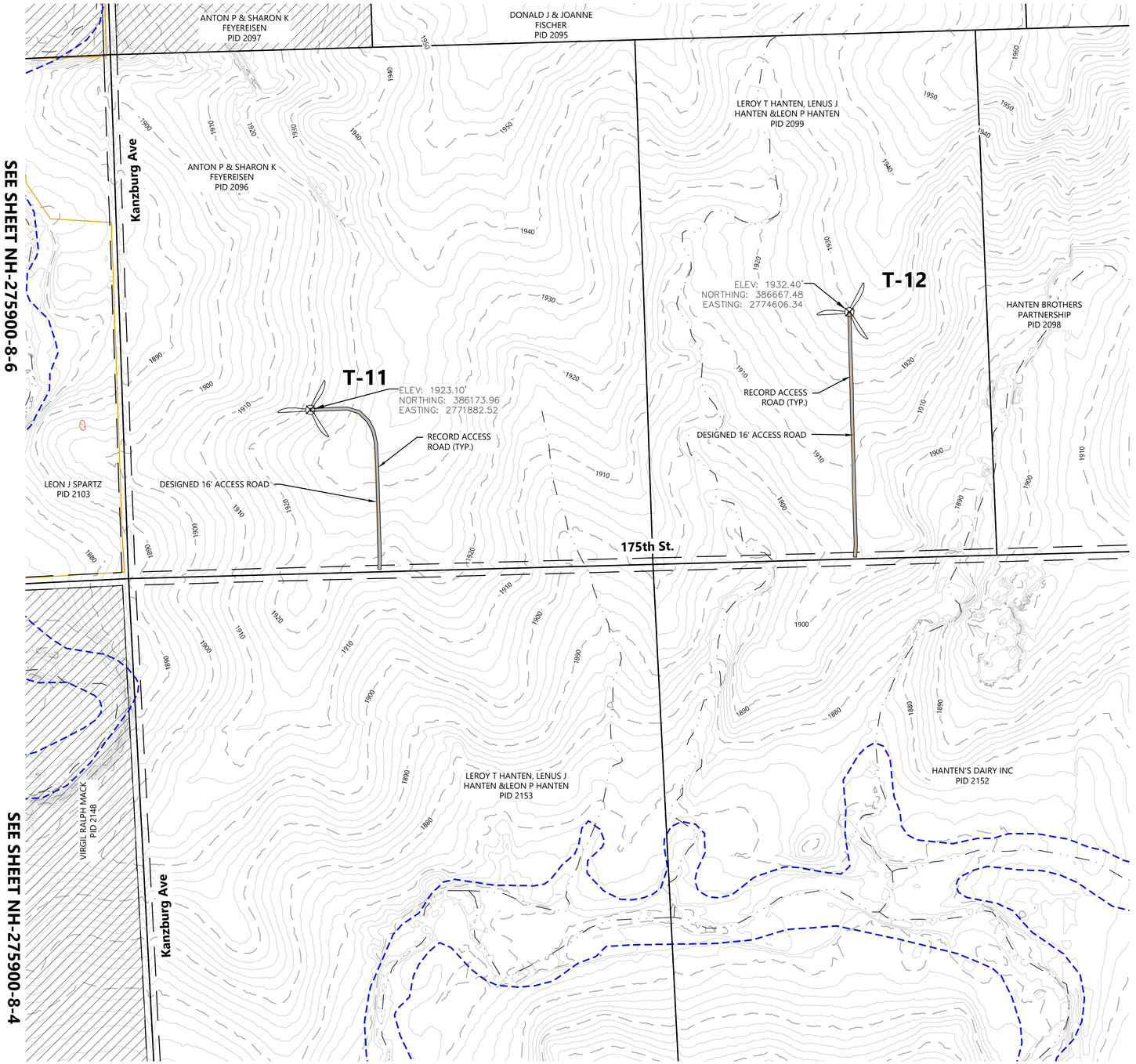
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-17, T-20

NH-275900-8-7

REV 1



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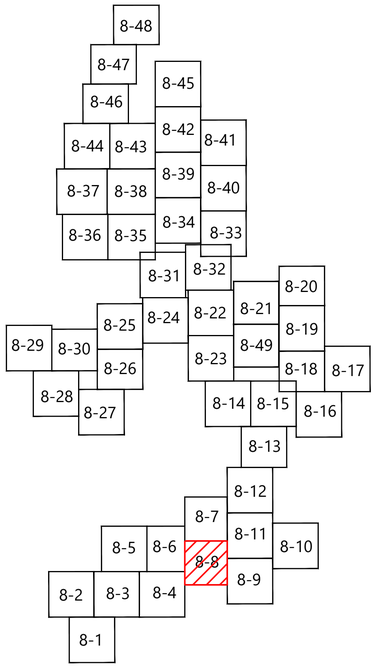
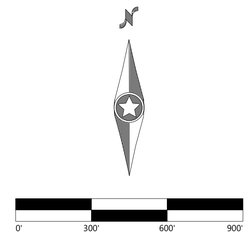
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:





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CROWNED RIDGE II WIND FARM
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

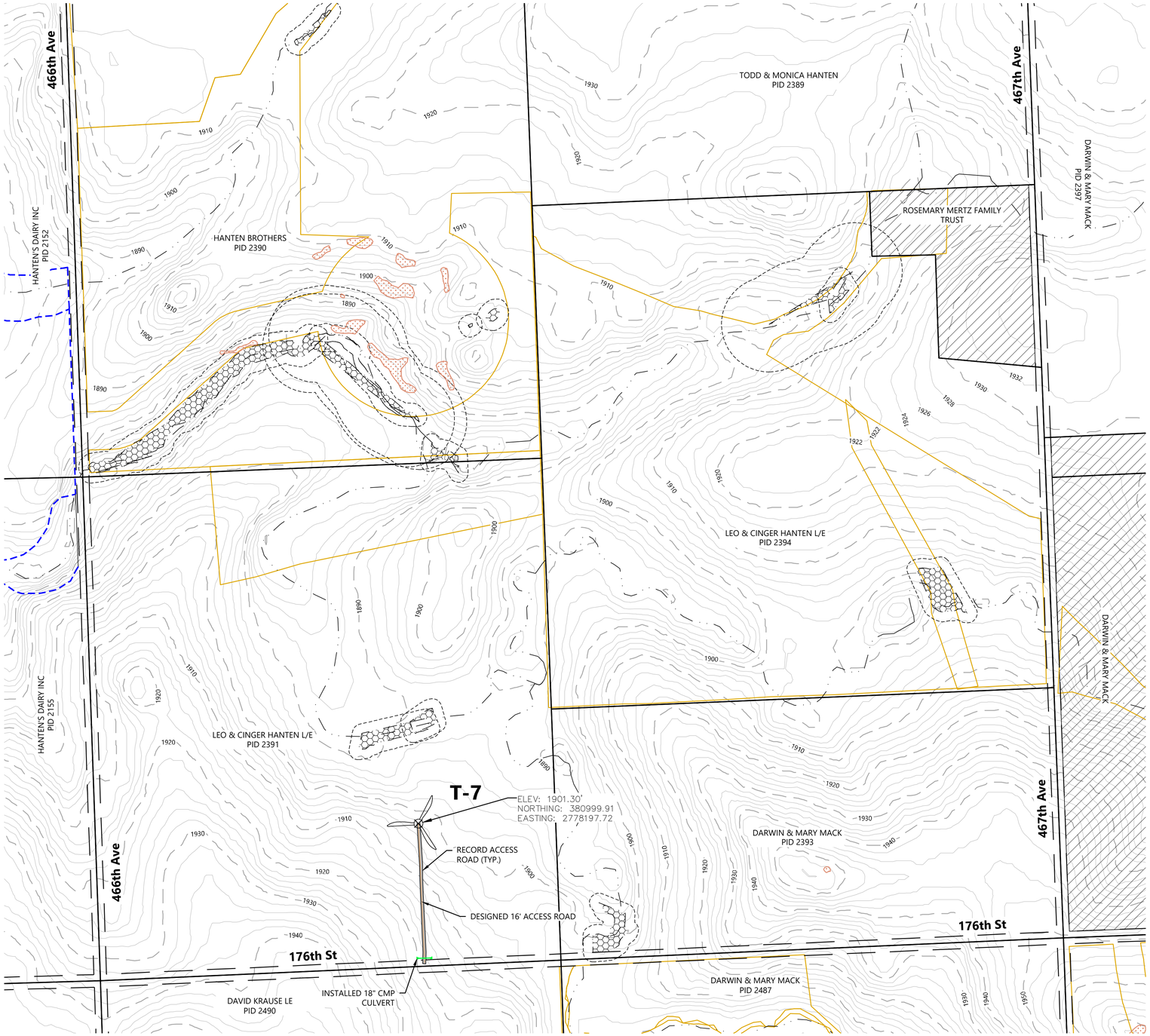
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-11, T-12

NH-275900-8-8

REV 1

SEE SHEET NH-275900-8-11



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- RECORD CULVERT
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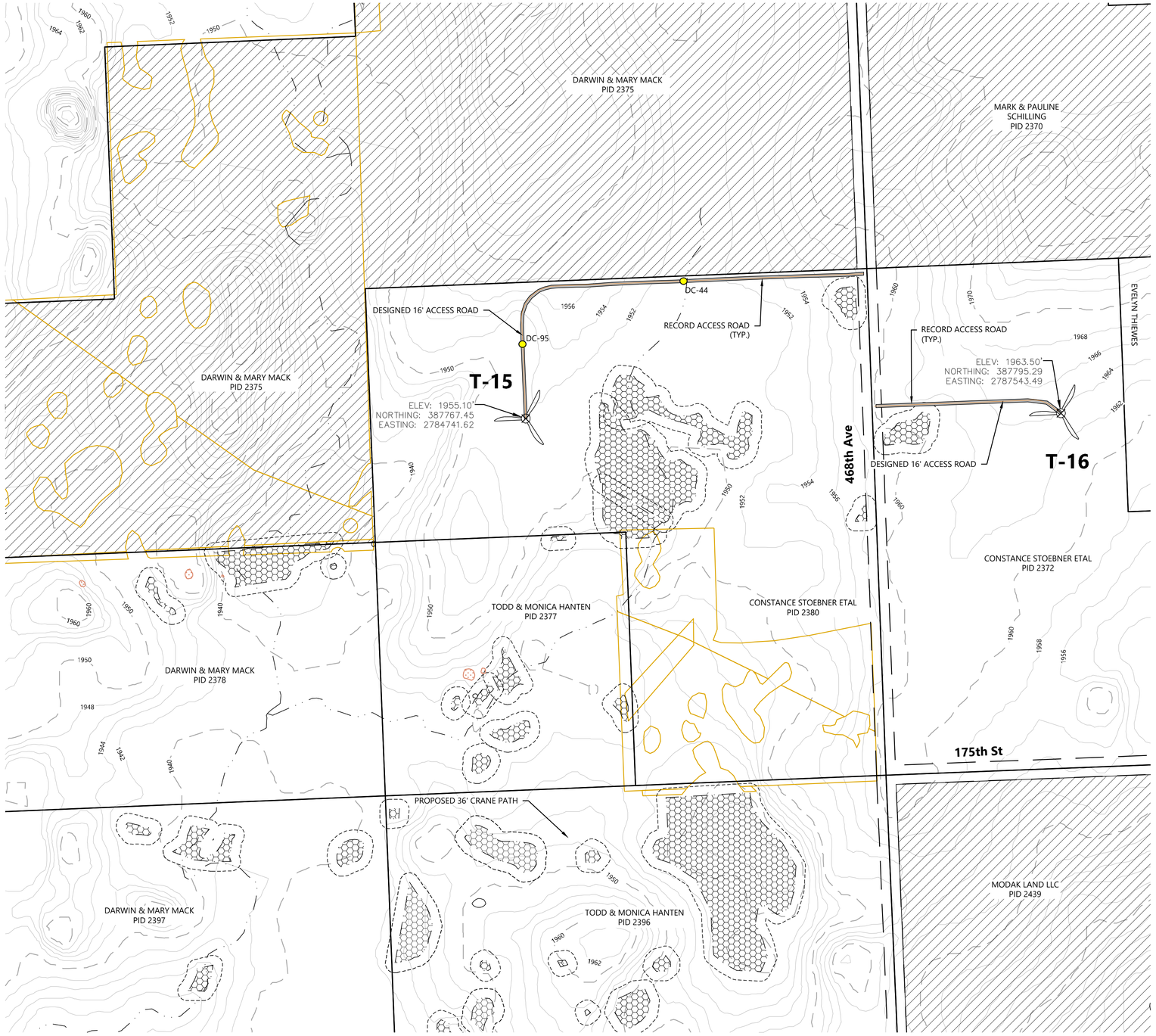
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-7

NH-275900-8-9

REV 1



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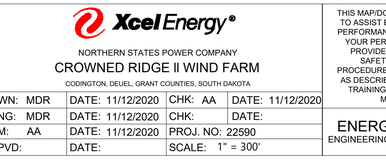

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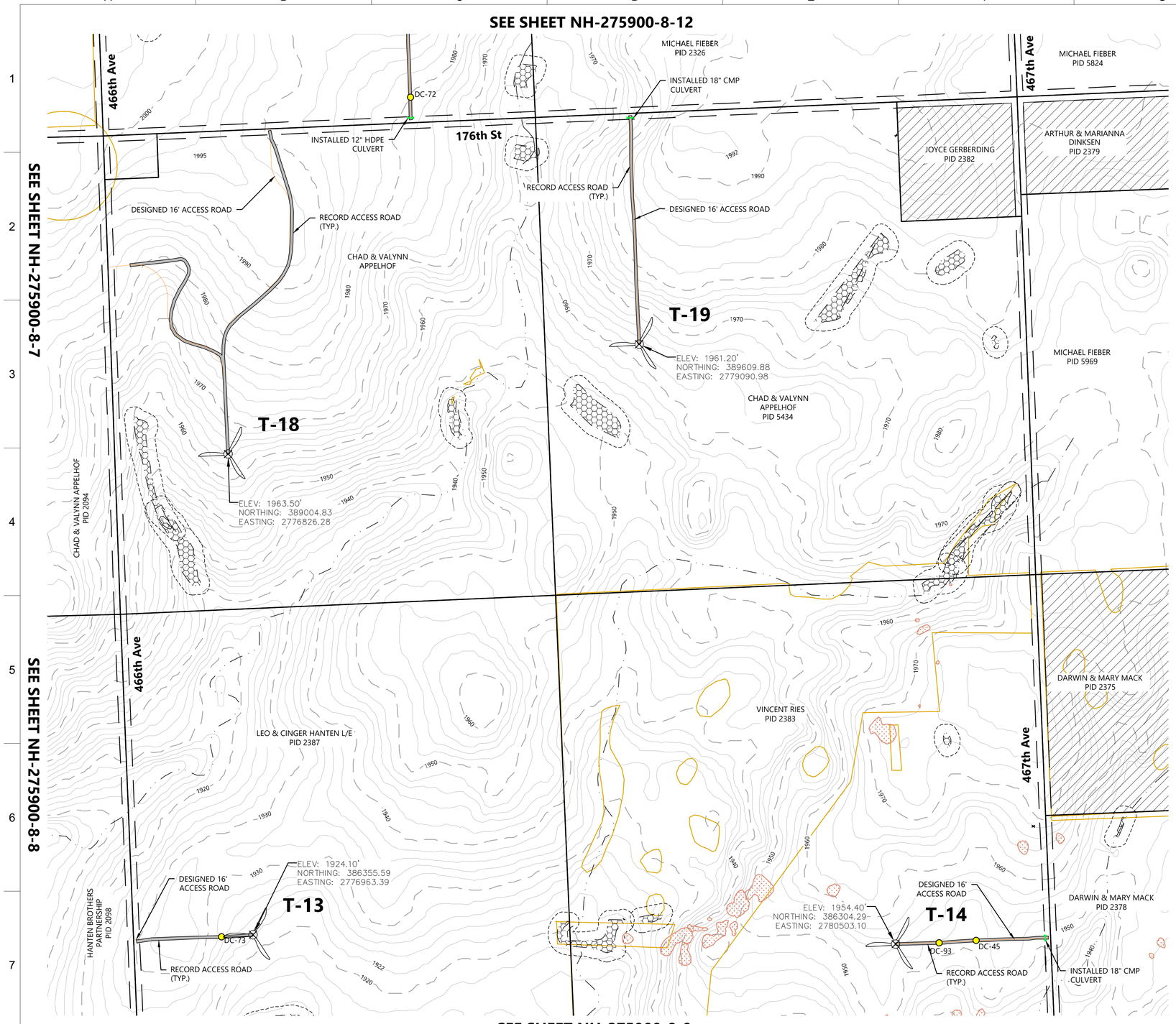
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-15, T-16

NH-275900-8-10

REV 1



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PM: AA	DATE: 11/12/2020	PROJ. NO: 22590	
APVD:	DATE:	SCALE: 1" = 300'	

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ENERGY SUPPLY
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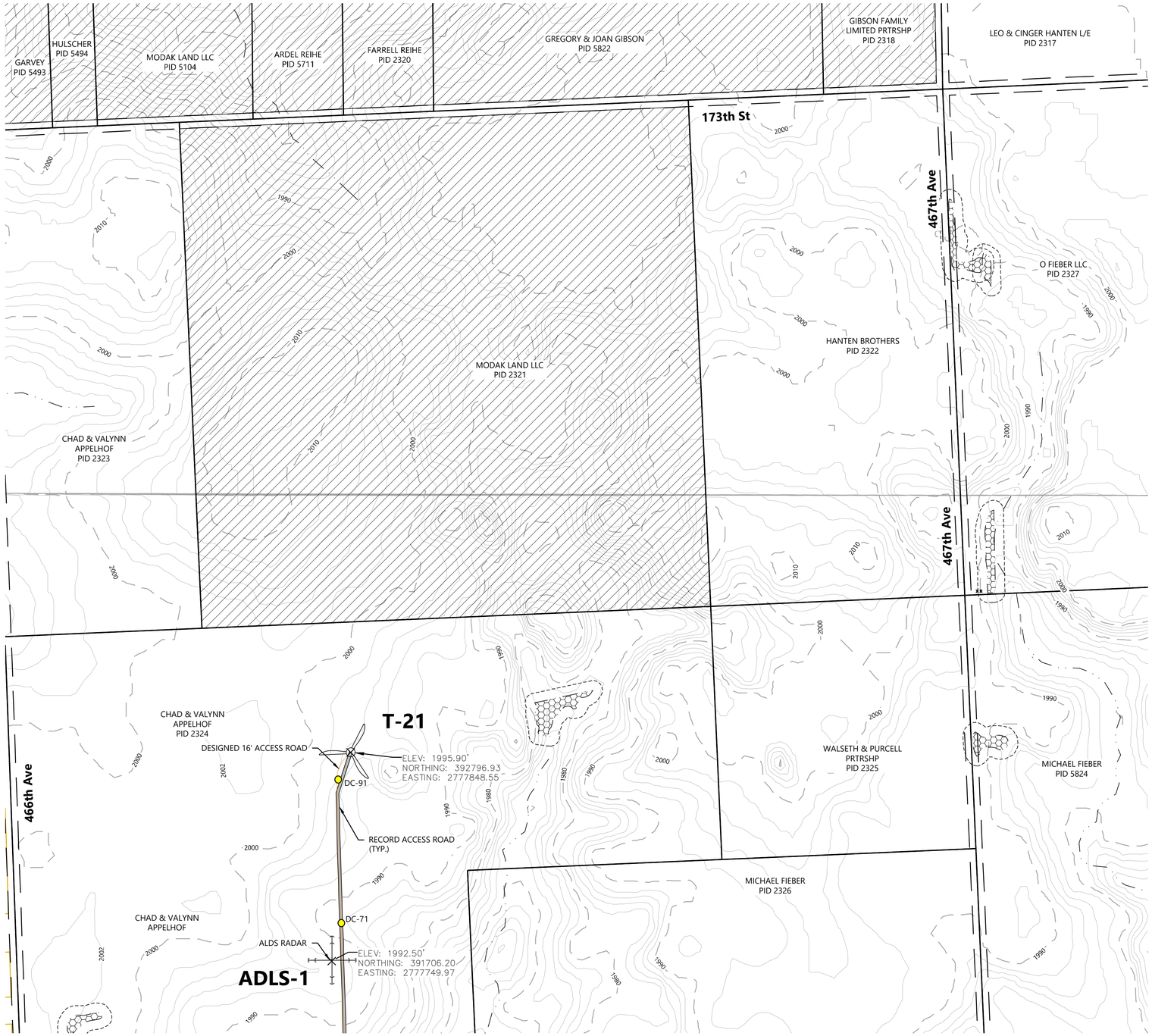
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-13, T-14, T-18, T-19

NH-275900-8-11

REV 1

SEE SHEET NH-275900-8-13

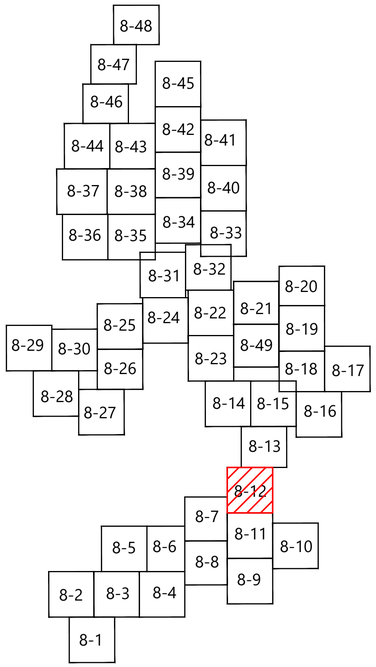


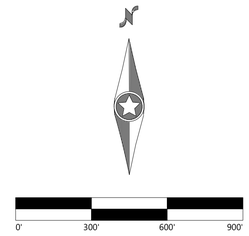
SEE SHEET NH-275900-8-11

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- POH — EX. OVERHEAD POWER
- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:





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REFERENCE DRAWINGS

DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
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CROWNED RIDGE II WIND FARM
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

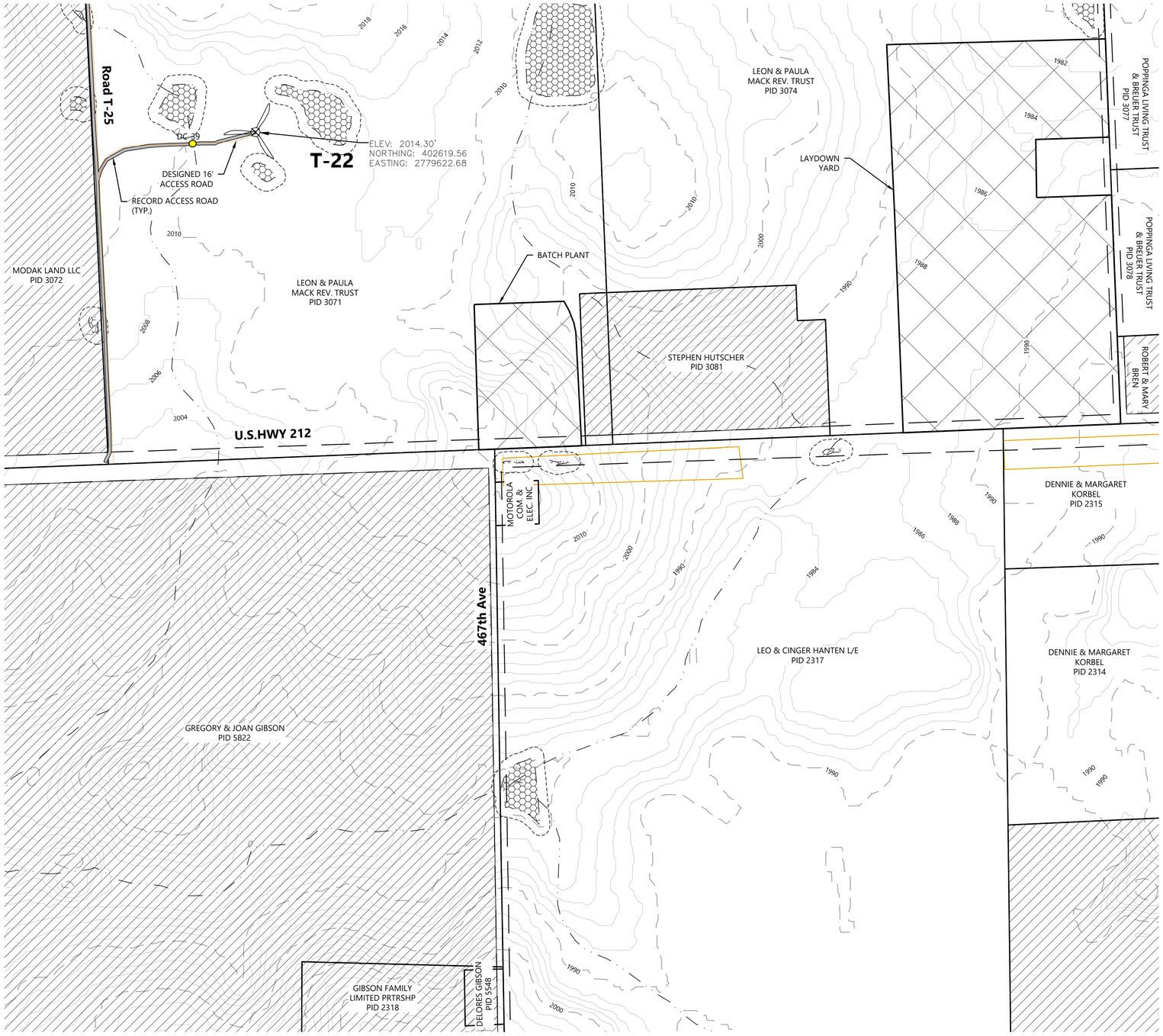
CIVIL SITE PLAN T-21, ADLS-1

NH-275900-8-12

REV 1

SEE SHEET NH-275900-8-14

SEE SHEET NH-275900-8-15



SEE SHEET NH-275900-8-12

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-UG — DESIGNED UNDERGROUND COLLECTION
- P-OH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- POH — EX. OVERHEAD POWER
- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
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- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

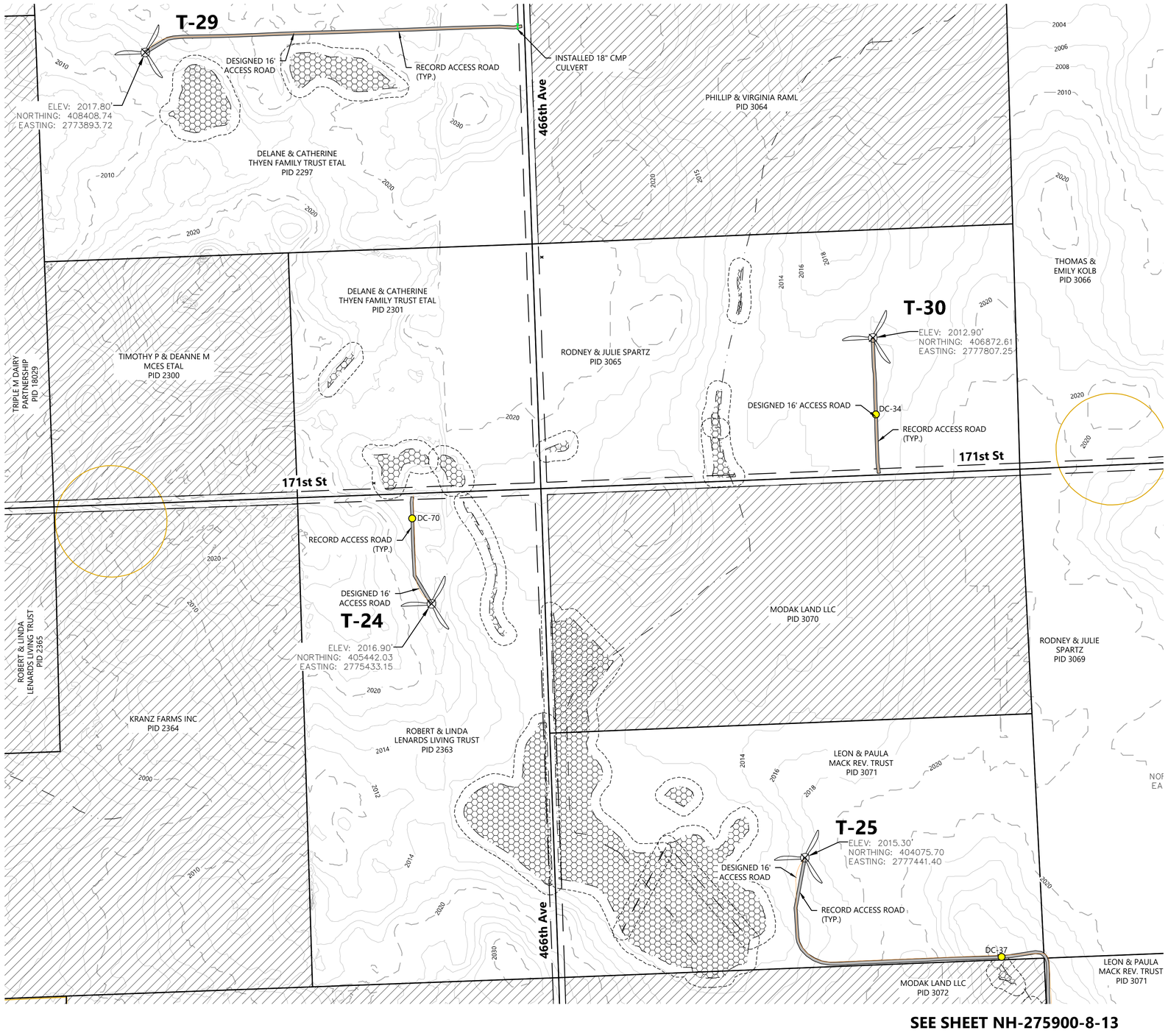
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-22

NH-275900-8-13

REV 1

SEE SHEET NH-275900-8-23



SEE SHEET NH-275900-8-15

SEE SHEET NH-275900-8-13

LEGEND:

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- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
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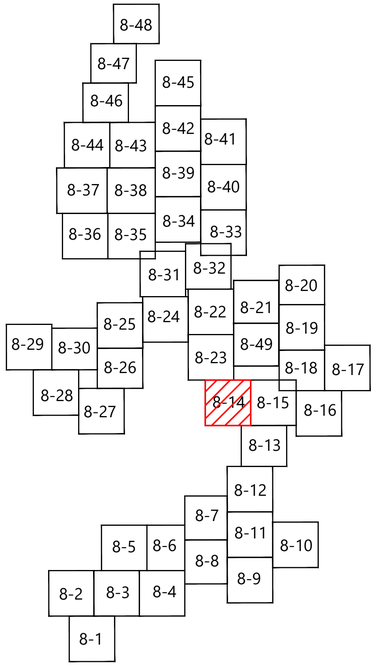
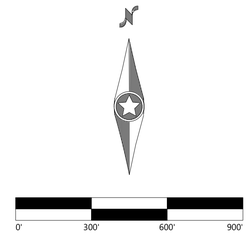
KEY MAP:





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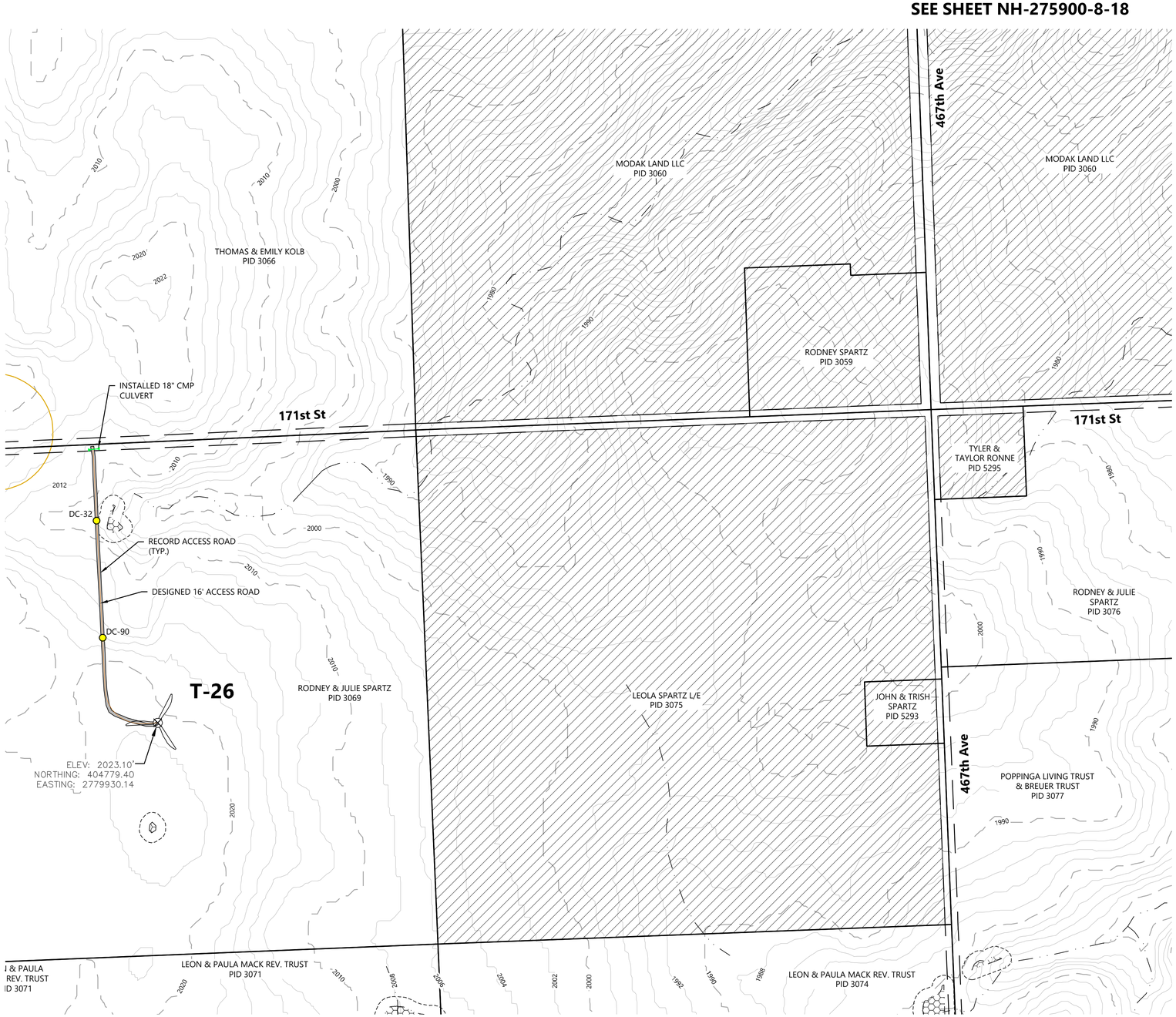
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-24, T-25, T-29, T-30

NH-275900-8-14 | REV 1



LEGEND:

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- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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- RECORD CULVERT
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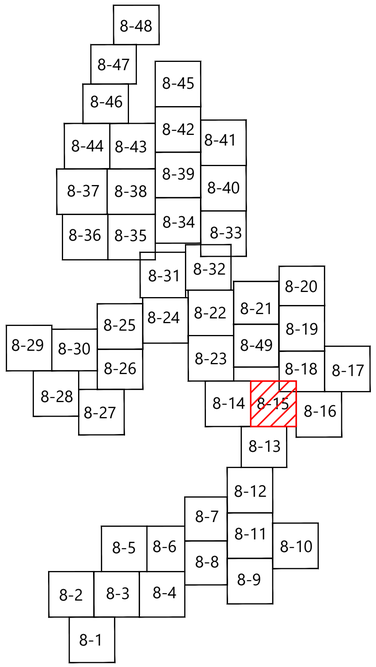
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-26

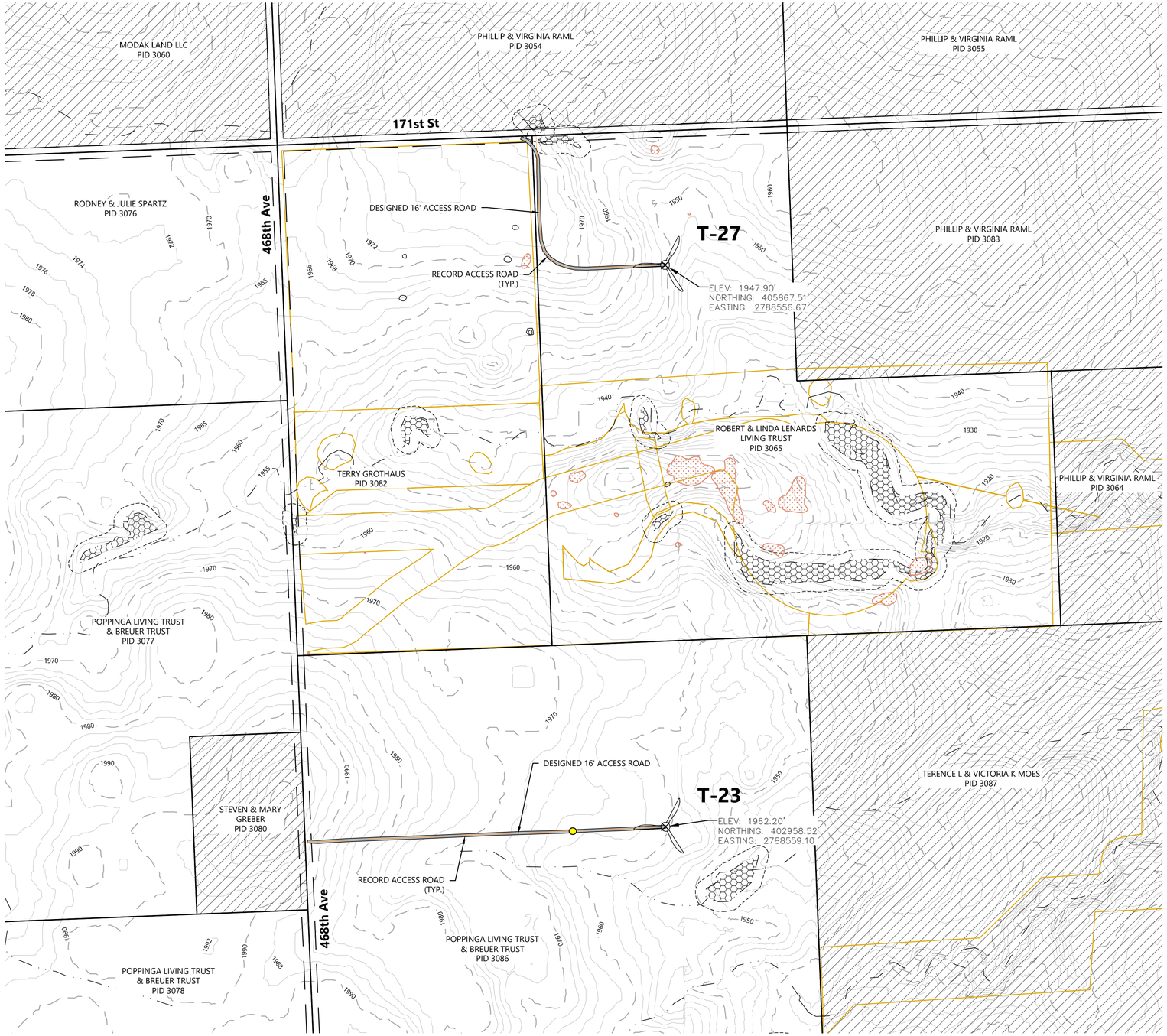
NH-275900-8-15

REV 1

SEE SHEET NH-275900-8-18

SEE SHEET NH-275900-8-17

SEE SHEET NH-275900-8-15



LEGEND:

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- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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- POH — EX. OVERHEAD POWER
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- EX. STREAM CHANNEL
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- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
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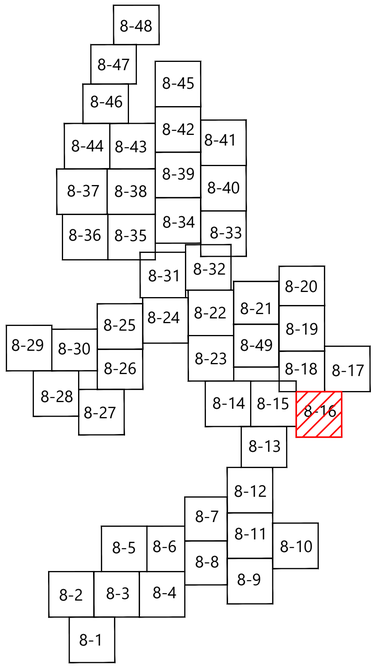
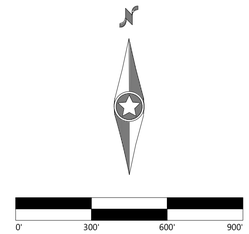
KEY MAP:





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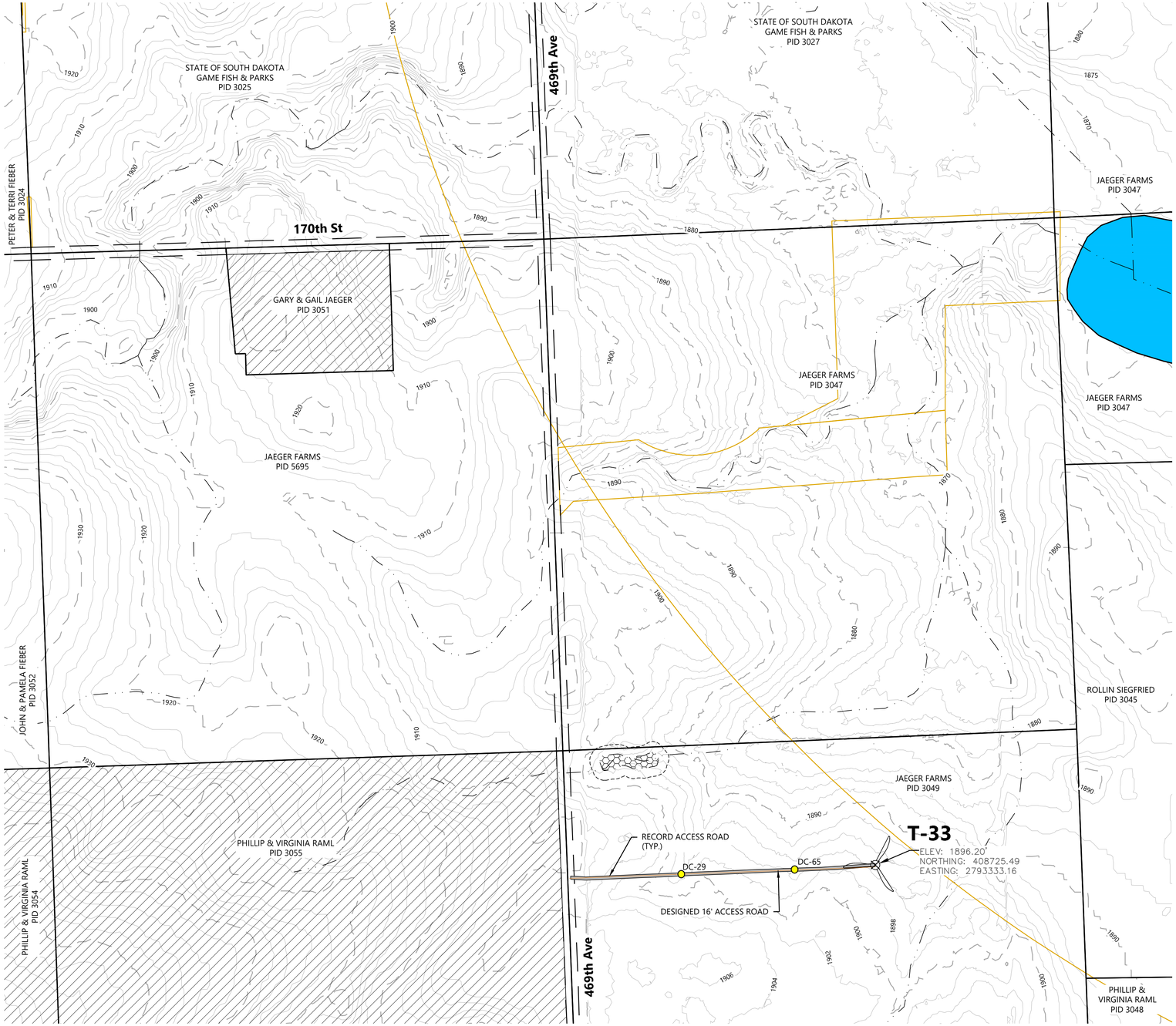
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-23, T-27

NH-275900-8-16

REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION
- DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
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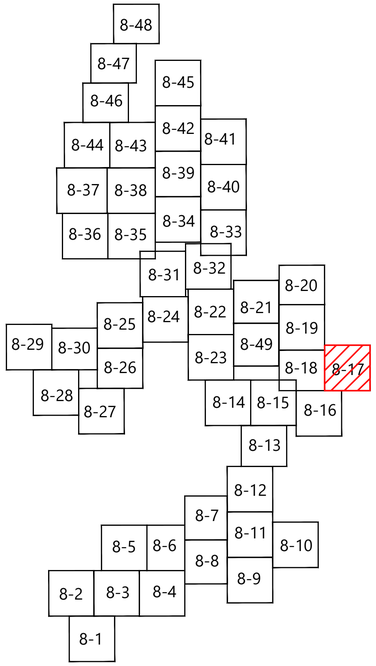
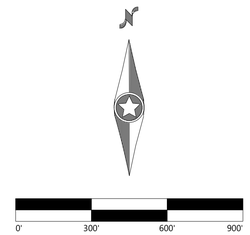
- RECORD CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR

KEY MAP:





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ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-33

NH-275900-8-17

REV 1

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION
- DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
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- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. STREAM CHANNEL
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- EX. INTERVAL CONTOUR

KEY MAP:

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-31, T-32, T-48

NH-275900-8-18

REV 1

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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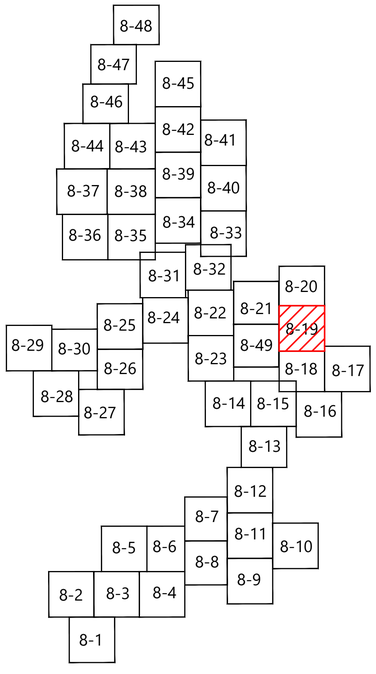
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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392 COUNTY RD 50
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ISSUE FOR RECORD

NO	REVISION	ZONE	DATE	BY	CHK	ENG
0	ISSUED FOR CONSTRUCTION		05/29/2020	MDR	AA	MDR
1	ISSUED FOR RECORD - CROWNED RIDGE 22590		11/12/2020	MDR	AA	MDR

NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS

DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®

NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

DWN: MDR	DATE: 11/12/2020	CHK: AA	DATE:11/12/2020
ENG: MDR	DATE: 11/12/2020	CHK:	DATE:
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APVD:	DATE:	SCALE: 1" = 300'	

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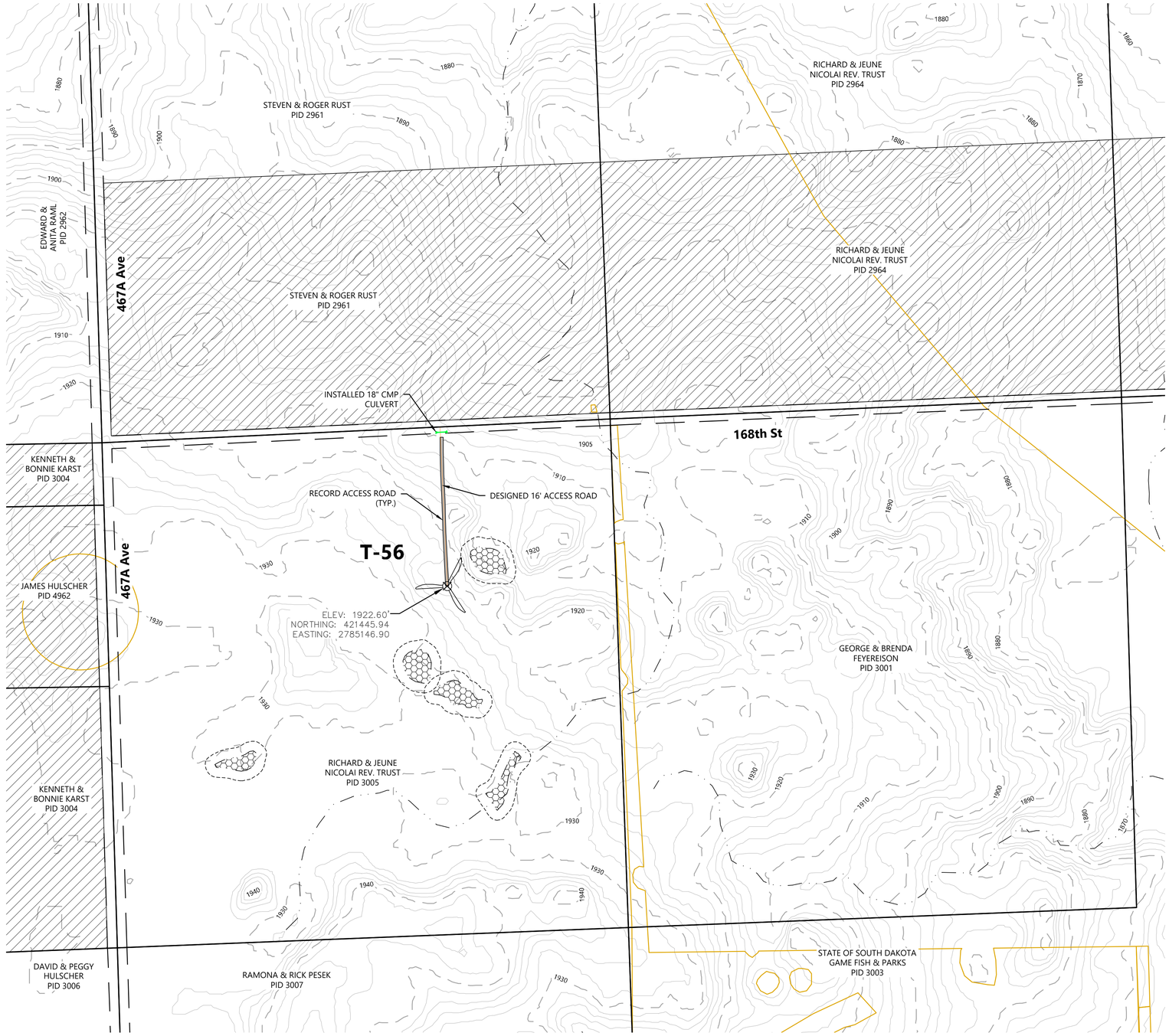
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-46, T-47, T-52

NH-275900-8-19

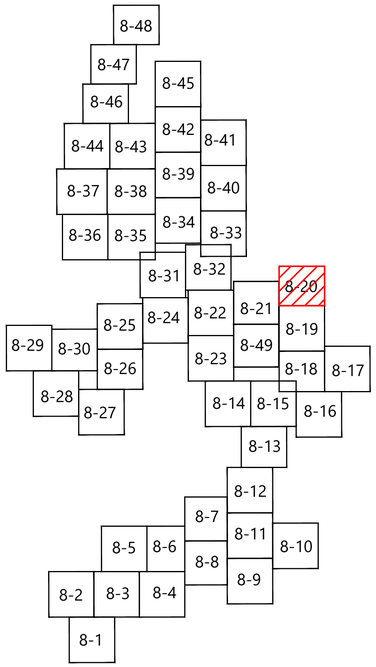
REV 1

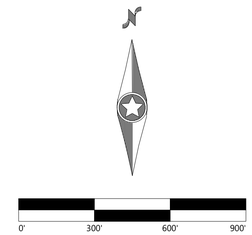


LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION
- DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR

KEY MAP:





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CROWNED RIDGE II WIND FARM
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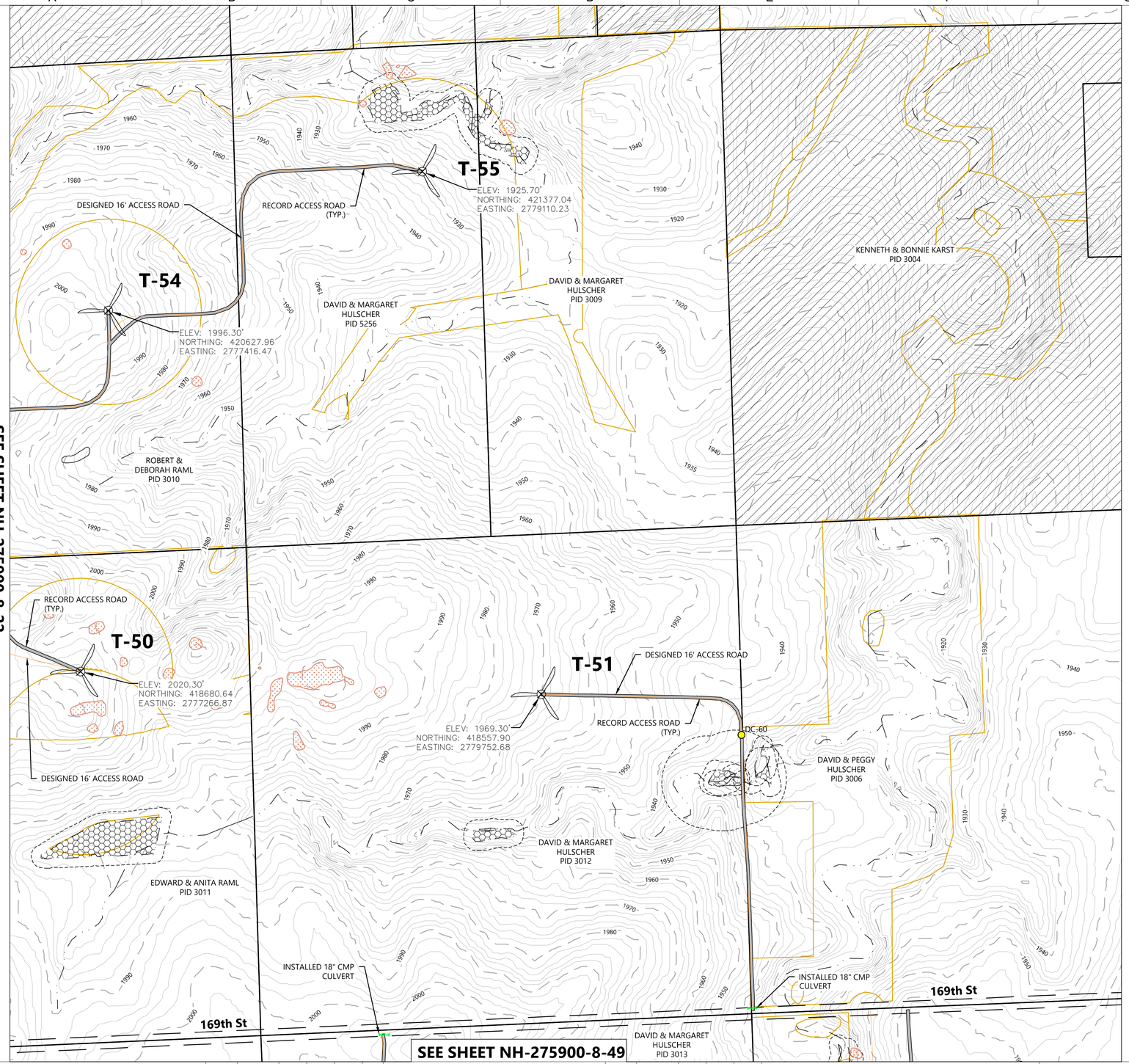
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-56

NH-275900-8-20

REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:

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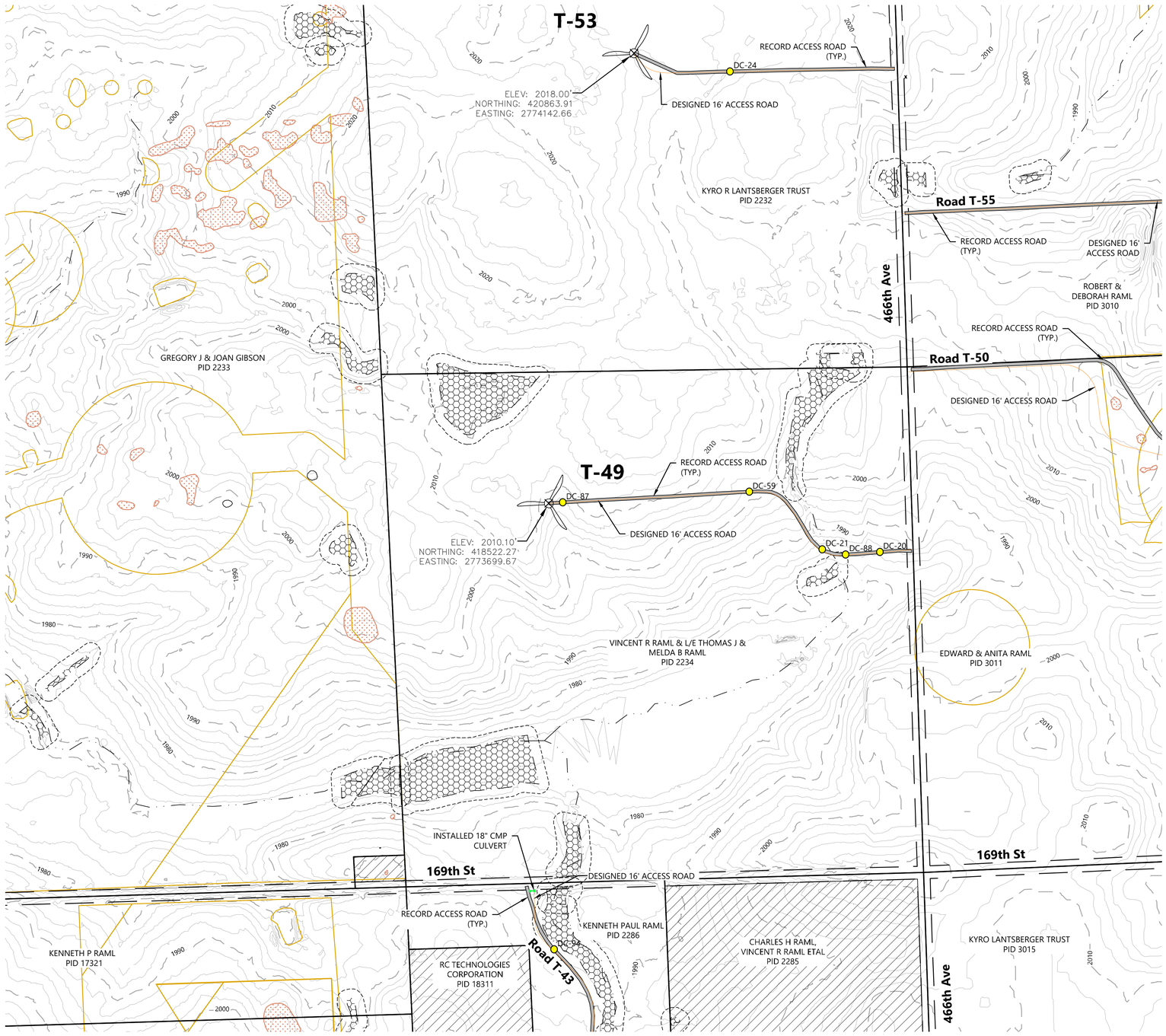
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-50, T-51, T-54, T-55

NH-275900-8-21 REV 1



LEGEND:

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- ADLS — ADLS RADAR LOCATION
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- RECORD ACCESS ROAD
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- RECORD CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR

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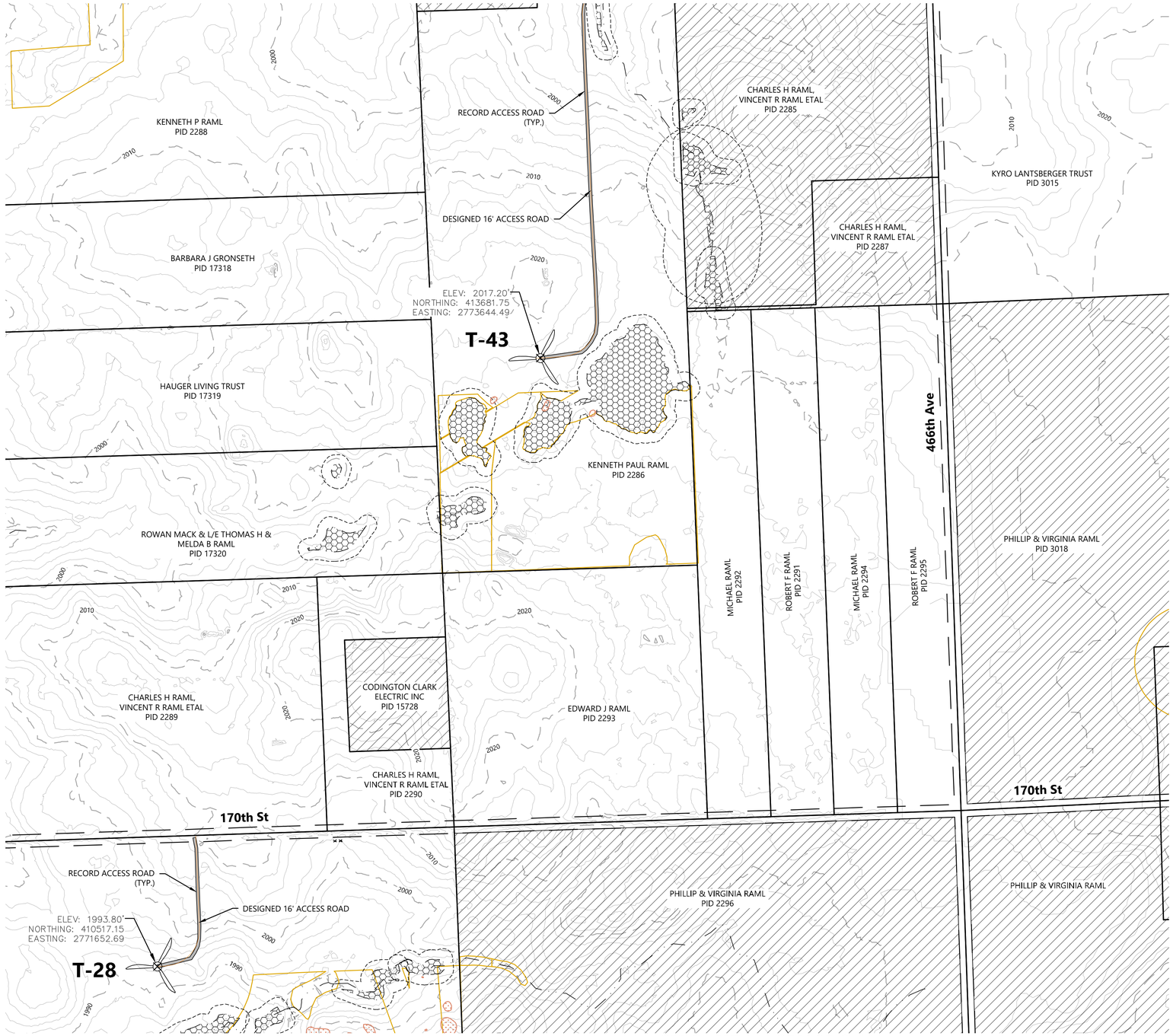
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-49, T-53

NH-275900-8-22

REV 1



LEGEND:

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- MET-XX — MET TOWER LOCATION
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- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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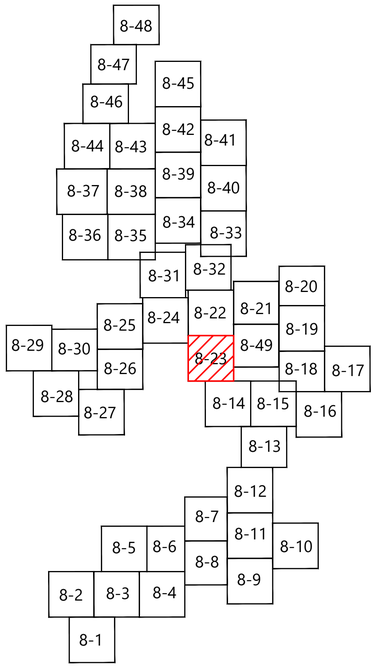
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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Xcel Energy®
NORTHERN STATES POWER COMPANY
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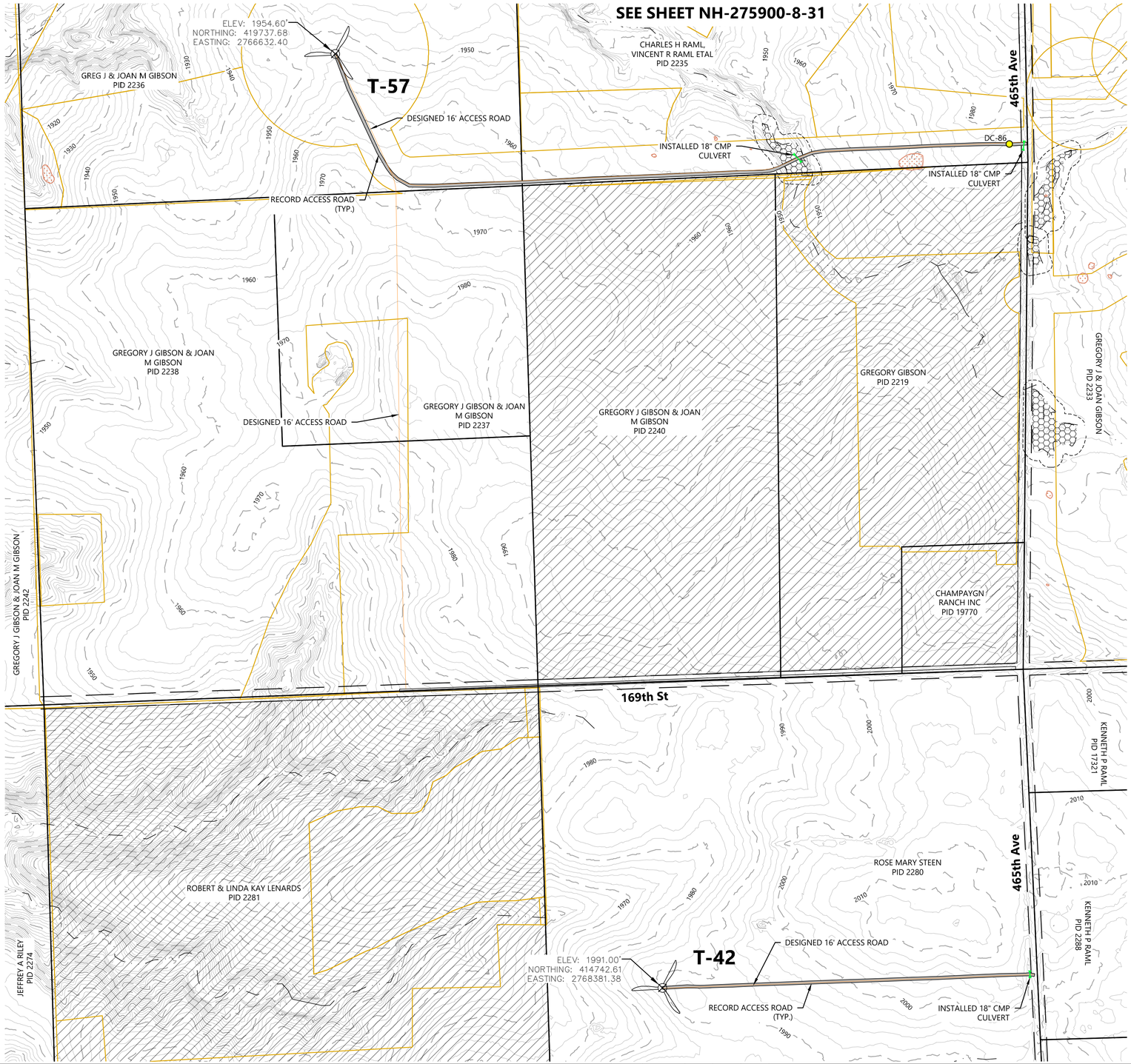
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-28, T-43

NH-275900-8-23

REV 1



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- RECORD ACCESS ROAD
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- EX. GAS PIPELINE
- EX. STREAM CHANNEL
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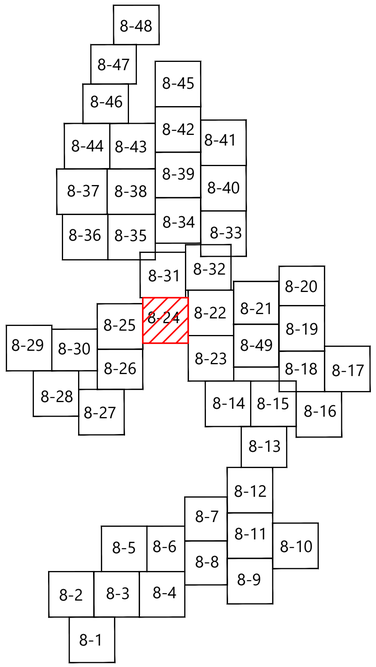
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR

KEY MAP:



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DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
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CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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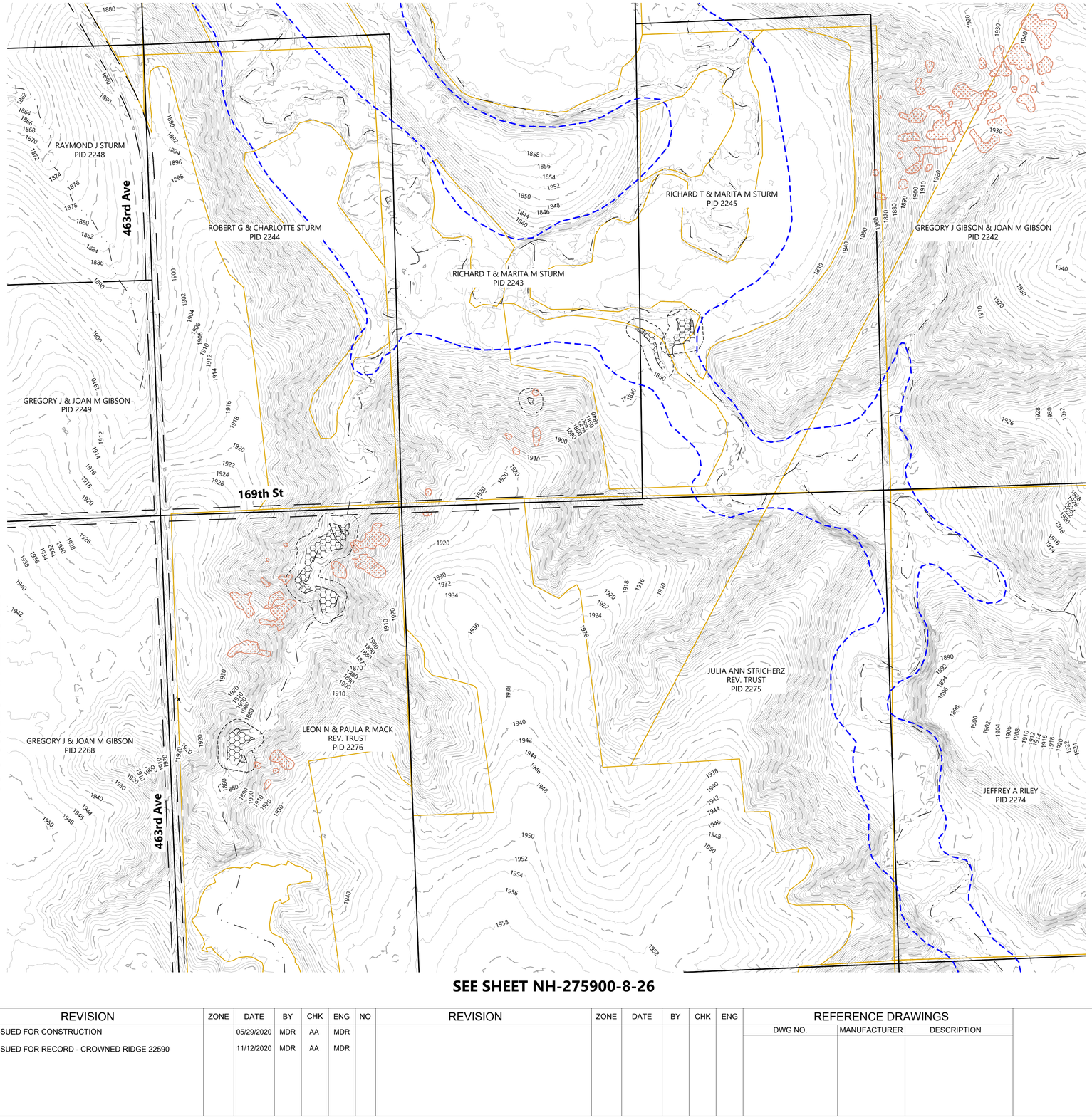
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-42, T-57

NH-275900-8-24

REV 1



SEE SHEET NH-275900-8-24

SEE SHEET NH-275900-8-30

SEE SHEET NH-275900-8-26

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
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- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:

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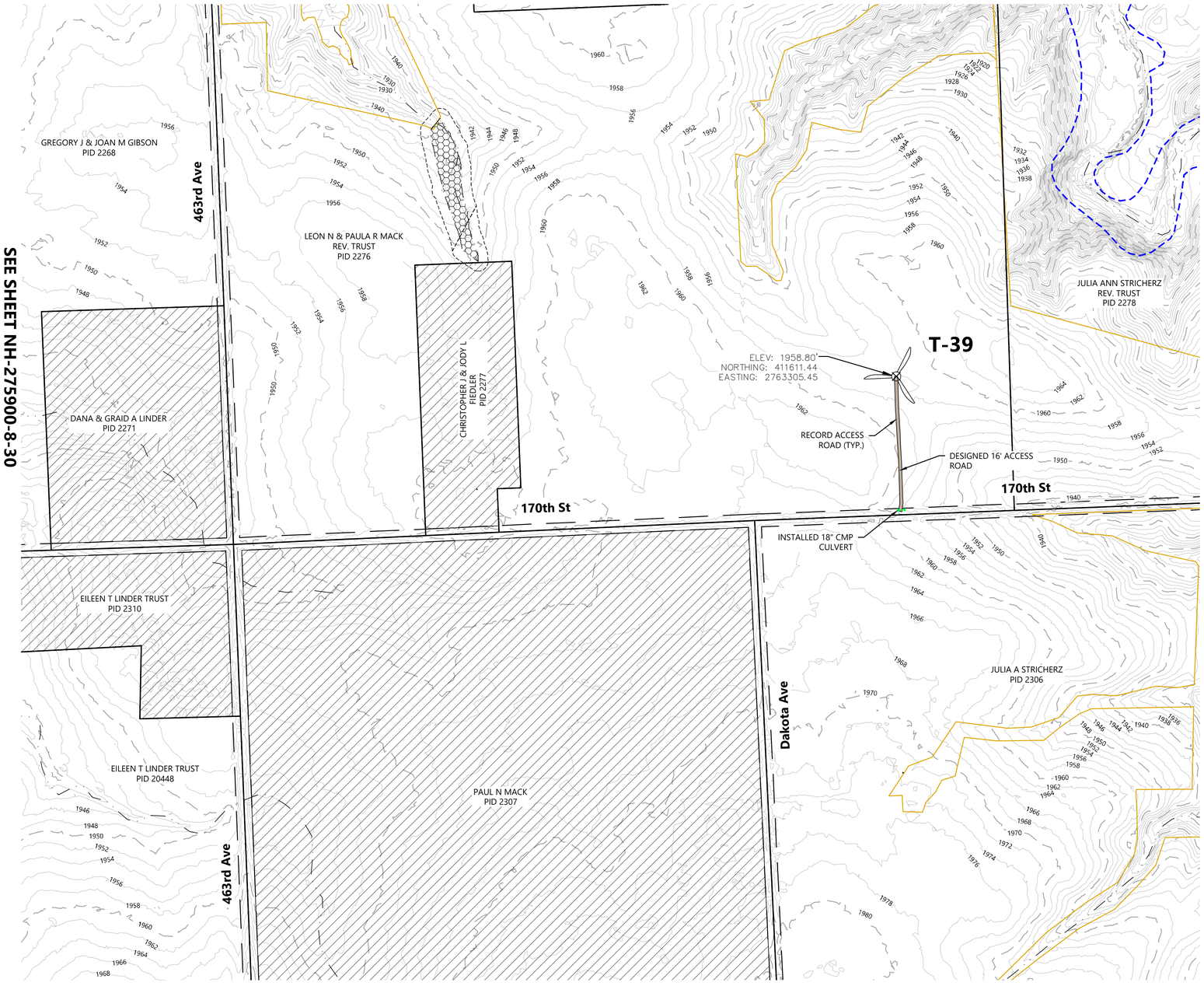
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN 1

NH-275900-8-25

REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
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- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

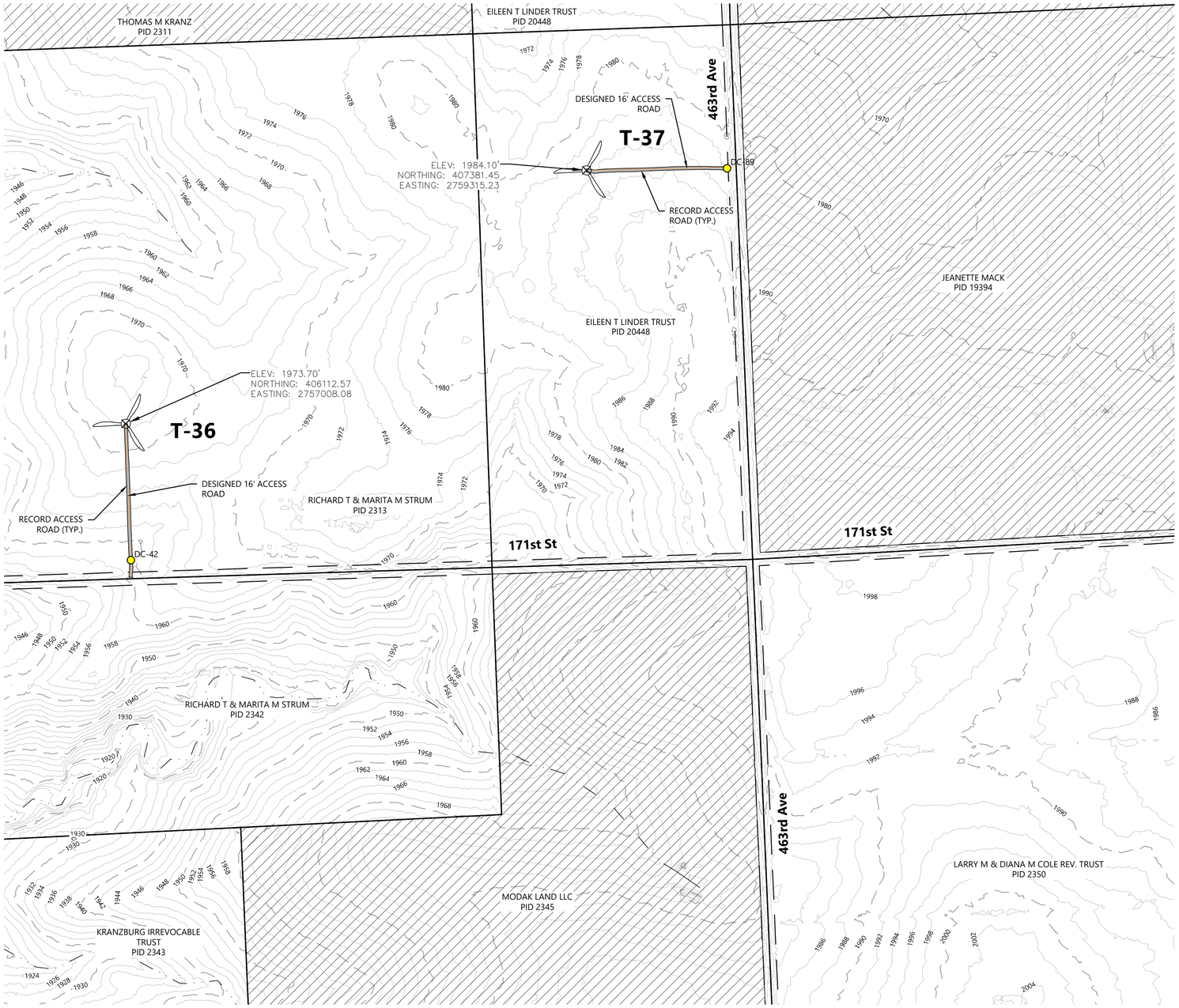
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-39

NH-275900-8-26

REV 1

SEE SHEET NH-275900-8-26



LEGEND:

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KEY MAP:

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ISSUE FOR RECORD

NO	REVISION	ZONE	DATE	BY	CHK	ENG
0	ISSUED FOR CONSTRUCTION		05/29/2020	MDR	AA	MDR
1	ISSUED FOR RECORD - CROWNED RIDGE 22590		11/12/2020	MDR	AA	MDR

NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS

DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

DWN: MDR	DATE: 11/12/2020	CHK: AA	DATE: 11/12/2020
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APVD:	DATE:	SCALE: 1" = 300'	

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-36, T-37

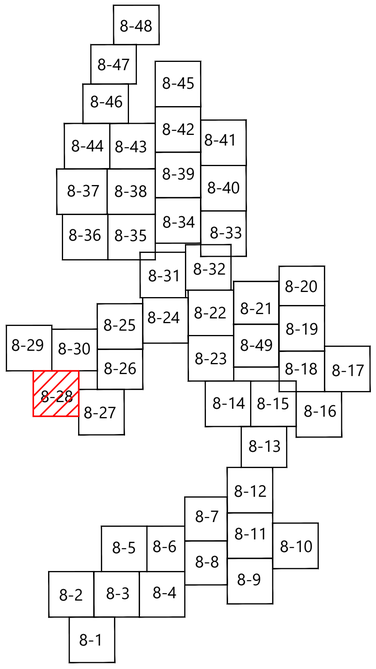
NH-275900-8-27

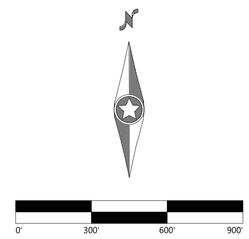
REV 1

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION (P-PUG)
- DESIGNED OVERHEAD TRANSMISSION (P-POH)
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. OVERHEAD POWER (POH)
- EX. GAS PIPELINE (GAS)
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:





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392 COUNTY RD 50
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ISSUE FOR RECORD

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CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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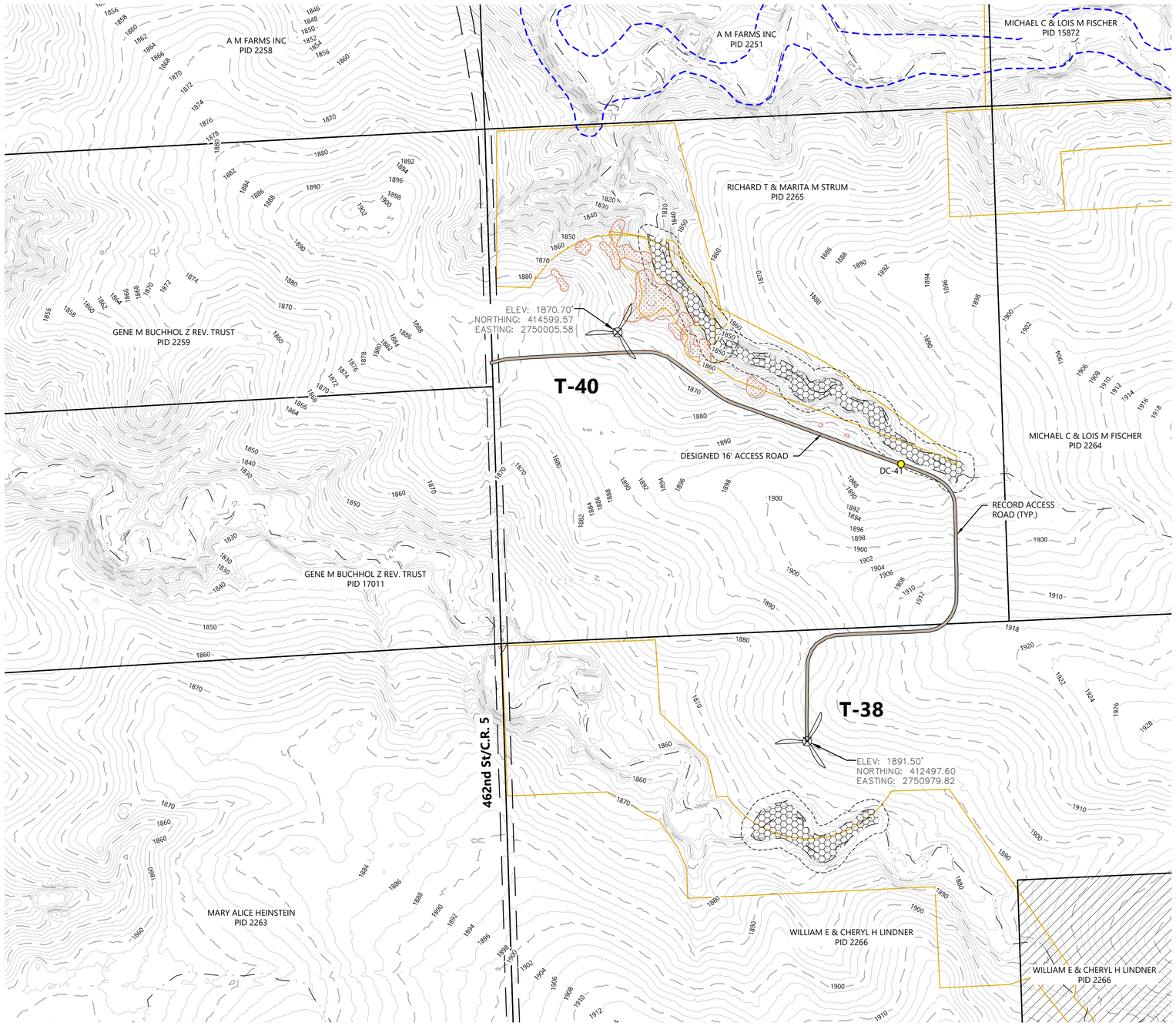
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-34, T-35

NH-275900-8-28

REV 1



SEE SHEET NH-275900-8-30

SEE SHEET NH-275900-8-28

LEGEND:

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- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- POH — EX. OVERHEAD POWER
- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
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- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:

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CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-38, T-40

NH-275900-8-29

REV 1

SEE SHEET NH-275900-8-41

SEE SHEET NH-275900-8-39

SEE SHEET NH-275900-8-34

SEE SHEET NH-275900-8-33

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION
- DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
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- EX. INDEX CONTOUR
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ENERGY SUPPLY
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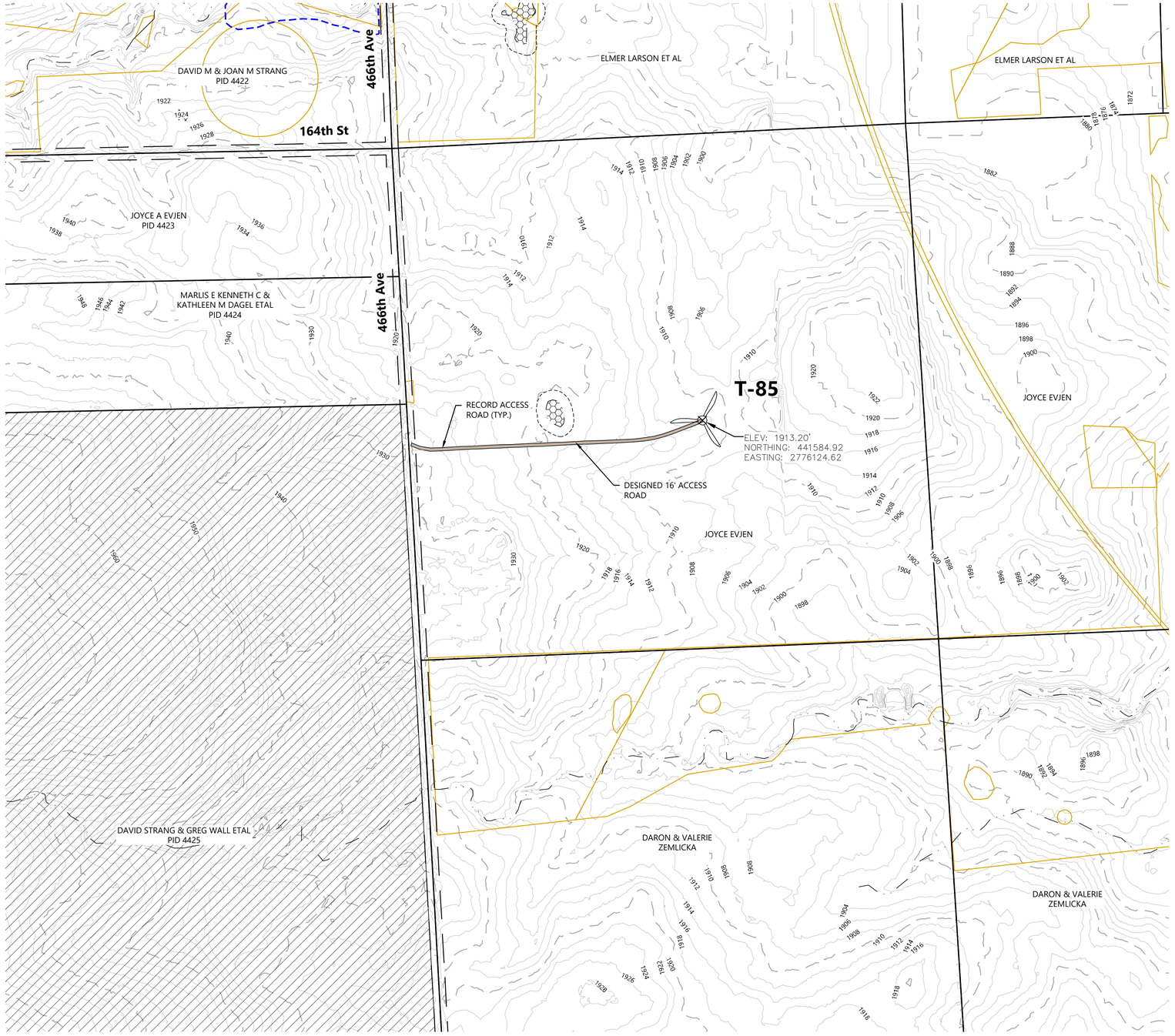
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-73, T-74, T-75

NH-275900-8-40 | REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION
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- PROPERTY LINE
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- EASEMENT LINES
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. STREAM CHANNEL
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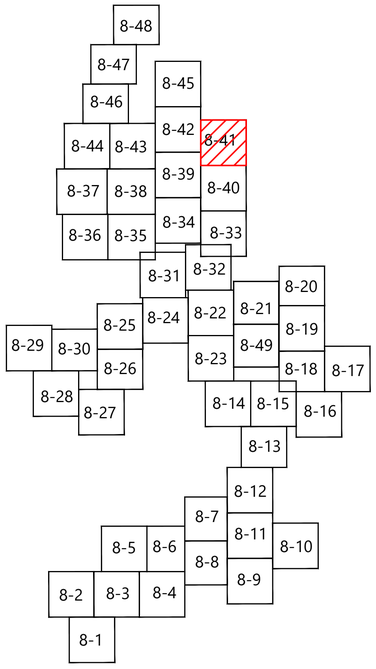
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR

KEY MAP:



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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

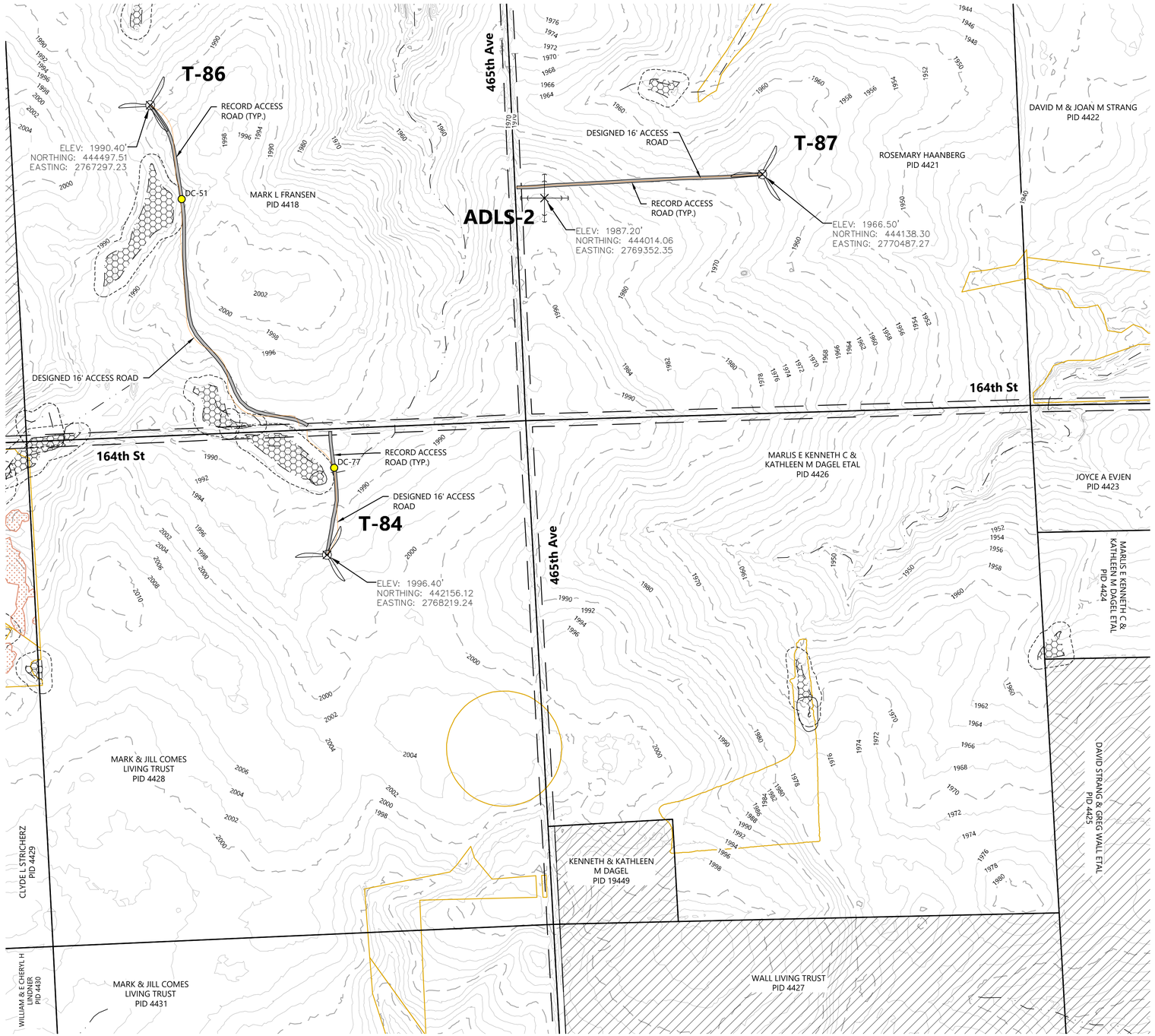
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-85

NH-275900-8-41

REV 1

SEE SHEET NH-275900-8-45



SEE SHEET NH-275900-8-43

SEE SHEET NH-275900-8-41

SEE SHEET NH-275900-8-39

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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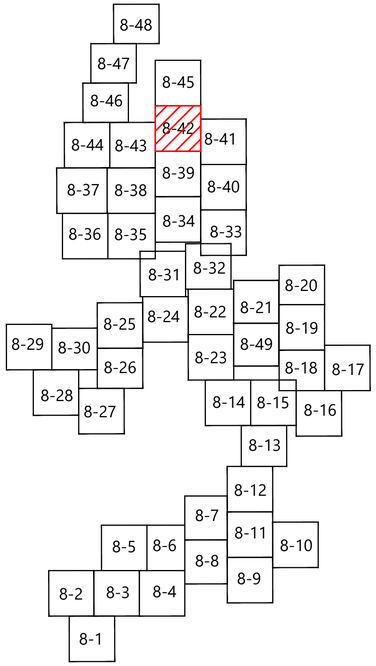
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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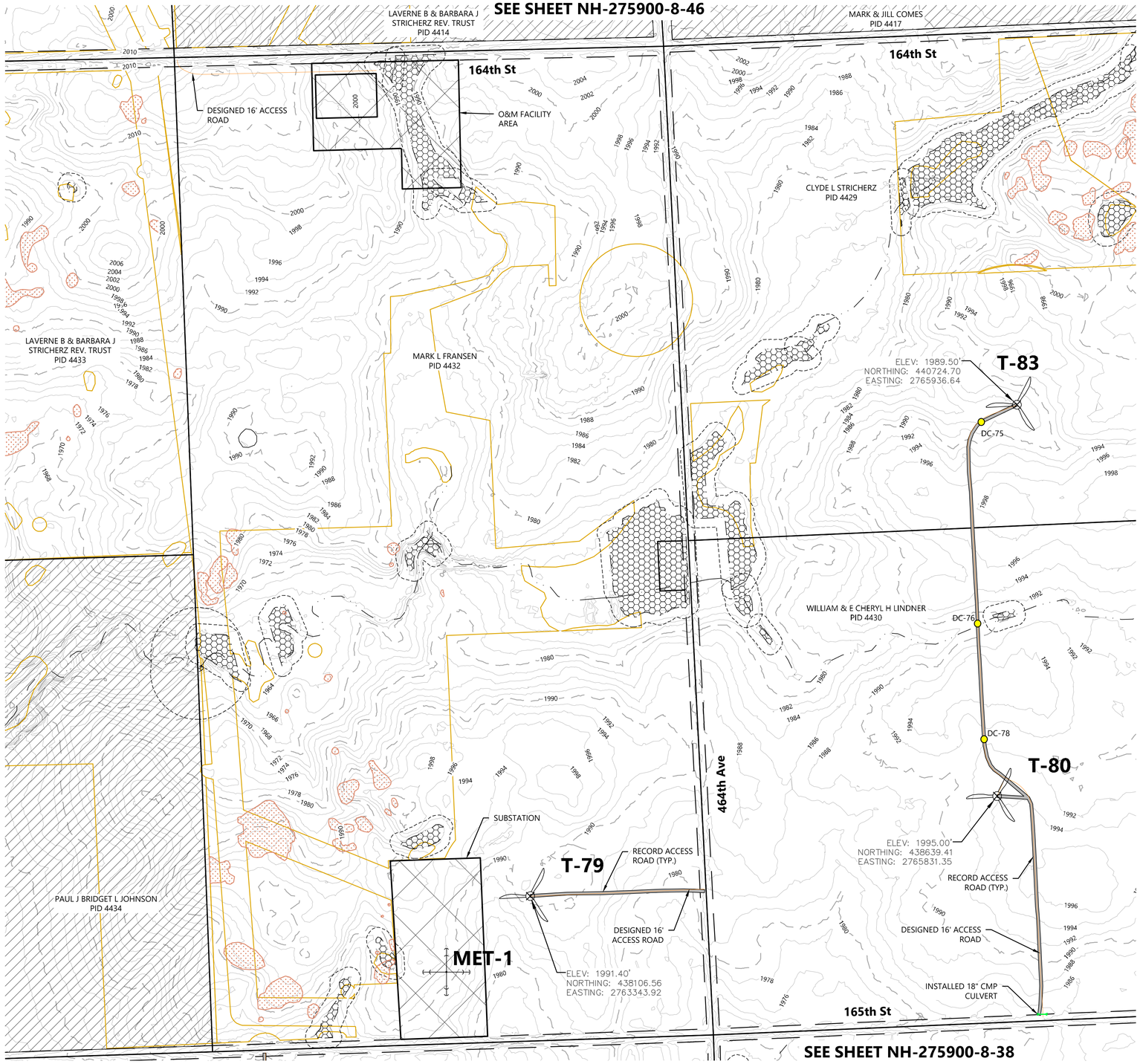
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-84, T-86, T-87, ADLS-2

NH-275900-8-42 REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION
- DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. OVERHEAD POWER
- EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
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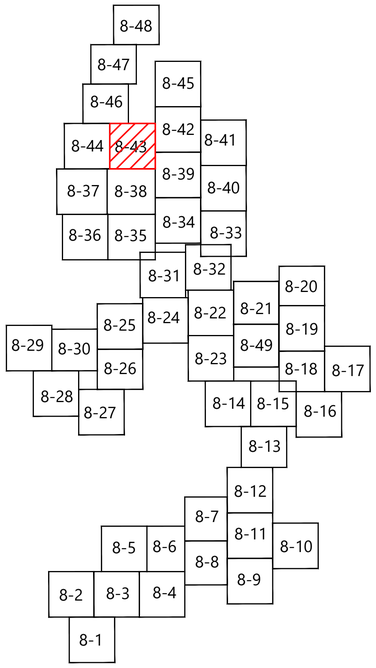
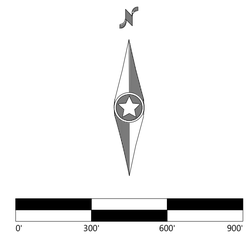
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR

KEY MAP:





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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-79, T-80, T-83, MET-1

NH-275900-8-43

REV 1

SEE SHEET NH-275900-8-46

SEE SHEET NH-275900-8-43

SEE SHEET NH-275900-8-37

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
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- EXISTING LAKE
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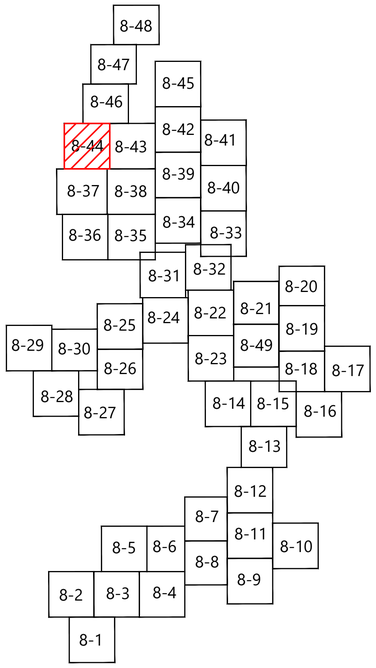
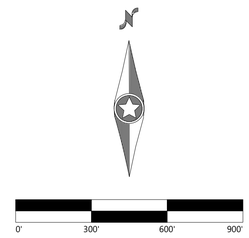
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:





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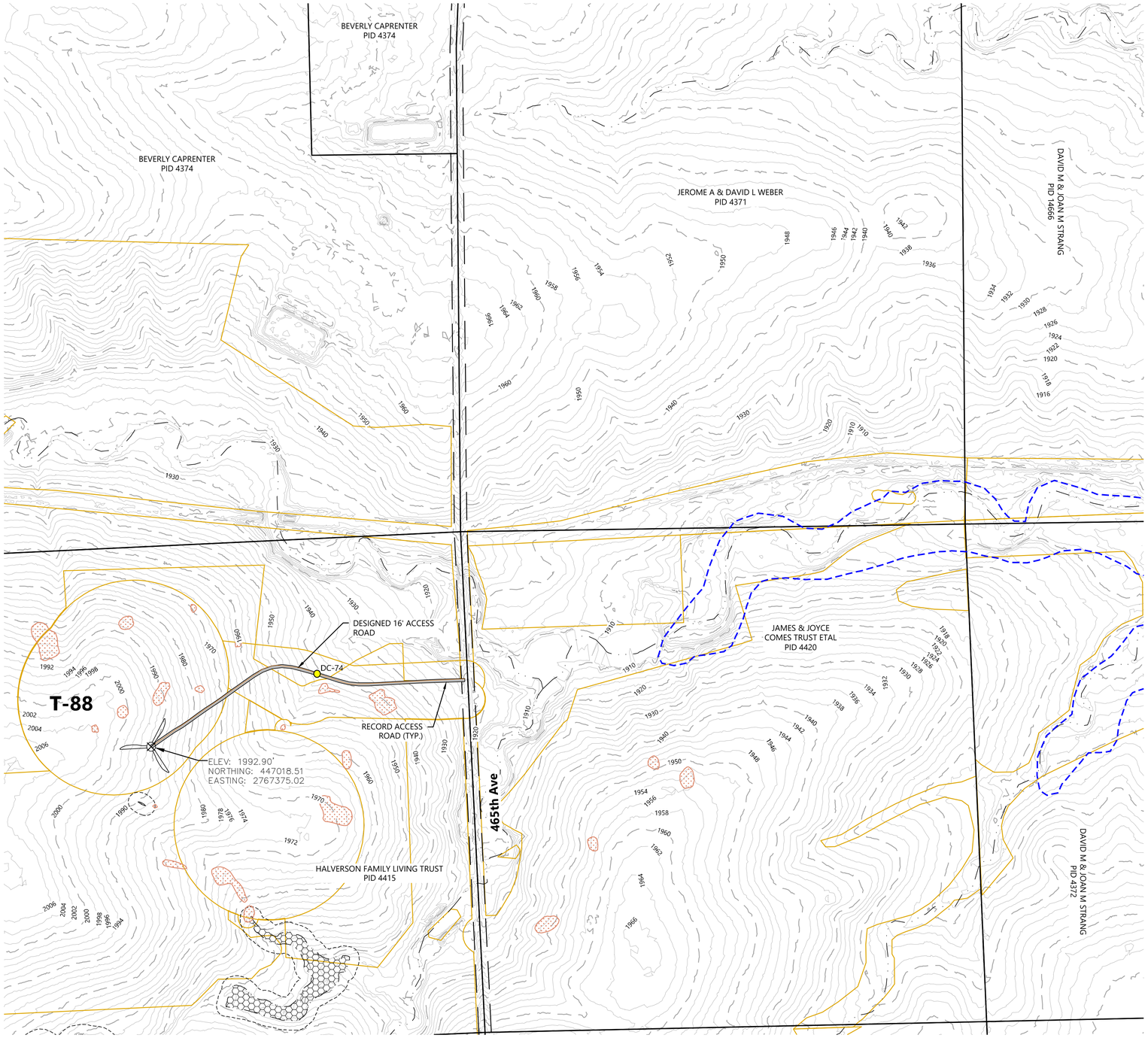
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-82

NH-275900-8-44

REV 1



SEE SHEET NH-275900-8-42

LEGEND:

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- MET-XX — MET TOWER LOCATION
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- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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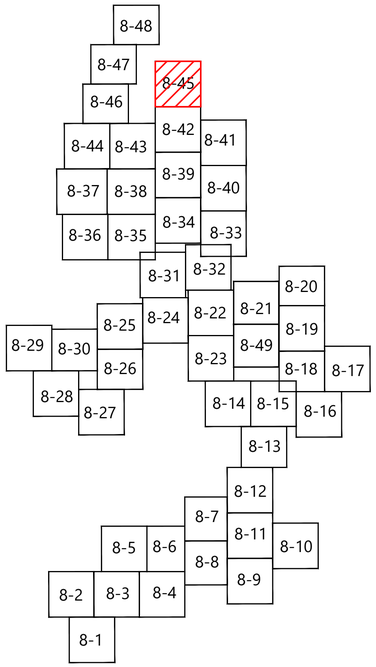

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PREPARED FOR:

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392 COUNTY RD 50
AVON, MN 56310

ISSUE FOR RECORD

NO	REVISION	ZONE	DATE	BY	CHK	ENG
0	ISSUED FOR CONSTRUCTION		05/29/2020	MDR	AA	MDR
1	ISSUED FOR REC0RD - CROWNED RIDGE 22590		11/12/2020	MDR	AA	MDR

NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

DWN: MDR	DATE: 11/12/2020	CHK: AA	DATE: 11/12/2020
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APVD:	DATE:	SCALE: 1" = 300'	

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

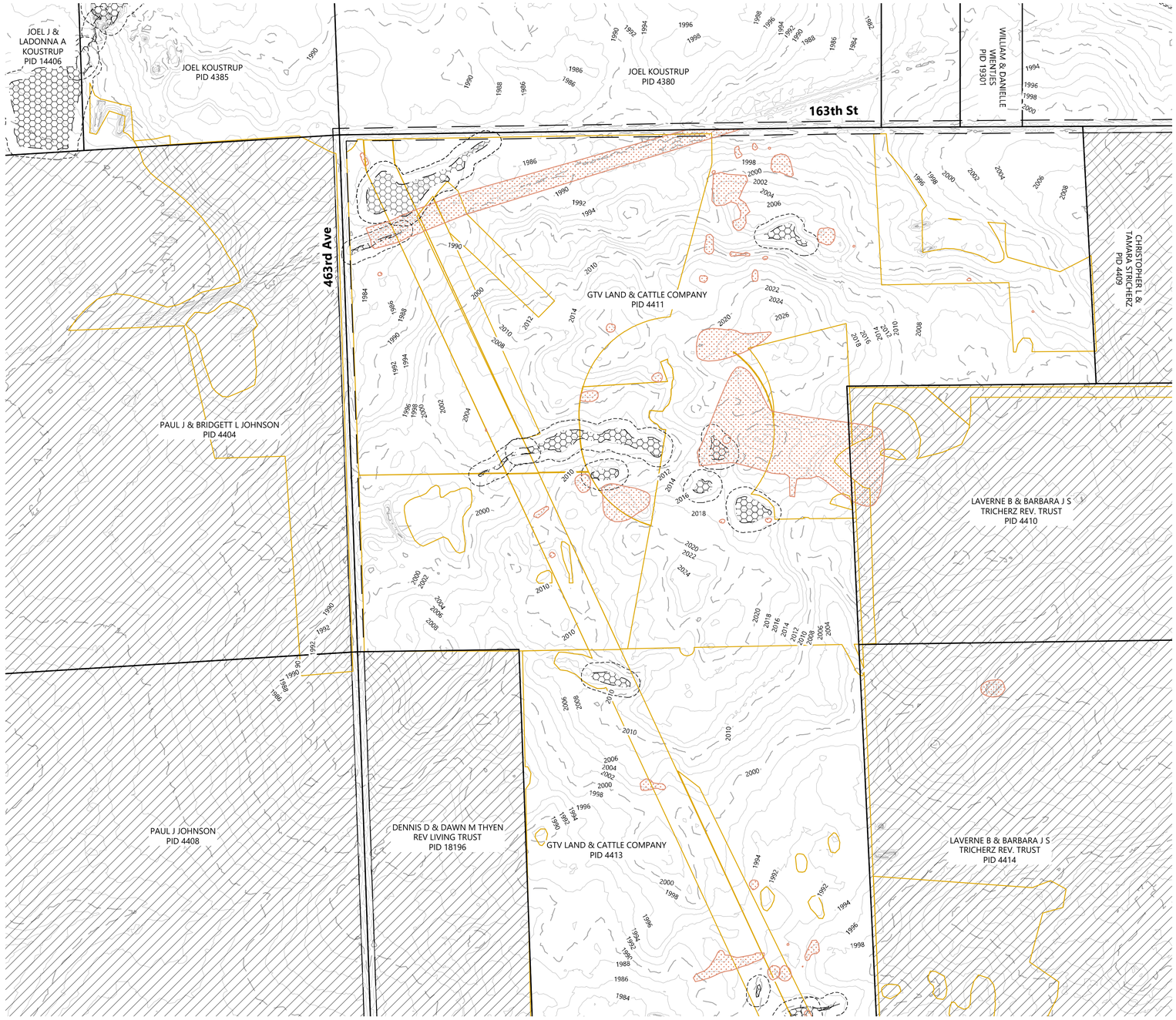
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-88

NH-275900-8-45

REV 1

SEE SHEET NH-275900-8-47



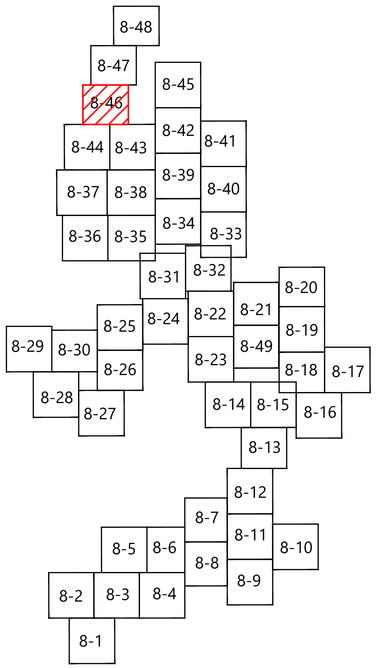
SEE SHEET NH-275900-8-44

SEE SHEET NH-275900-8-43

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- POH — EX. OVERHEAD POWER
- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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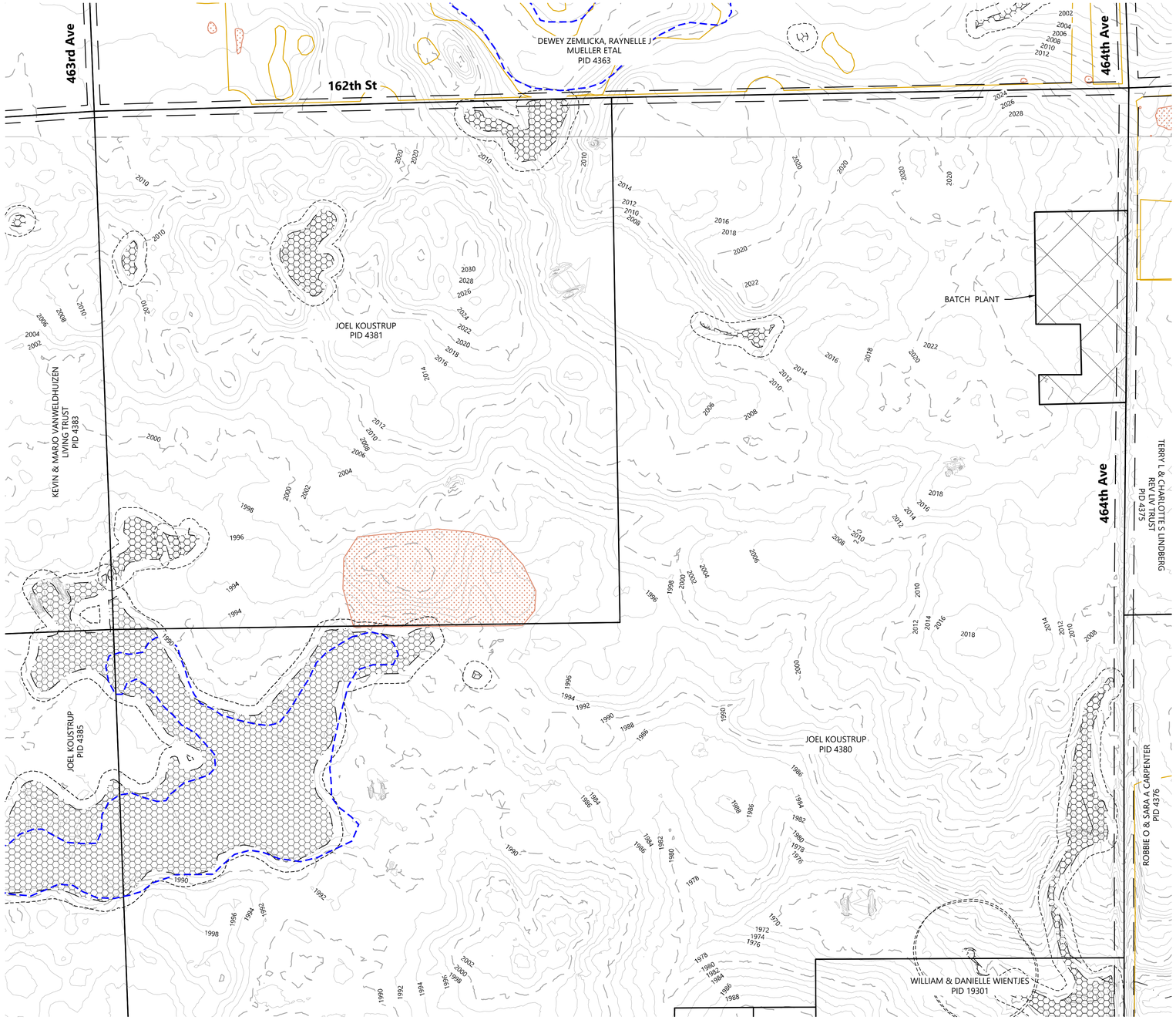
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN 2

NH-275900-8-46

REV 1



LEGEND:

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- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
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- PROPERTY LINE
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- EASEMENT LINES
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- GAS — EX. GAS PIPELINE
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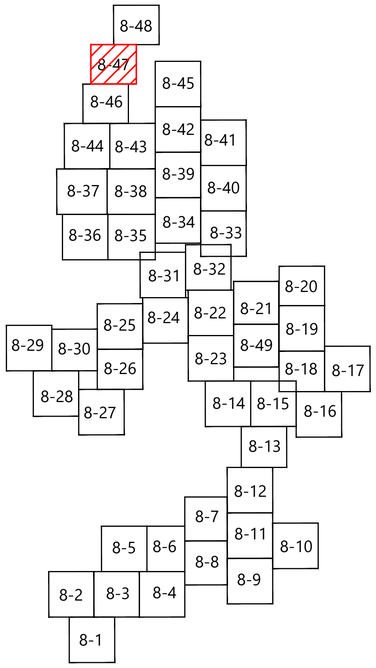
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN 3

NH-275900-8-47

REV 1

SEE SHEET NH-275900-8-47

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
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- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
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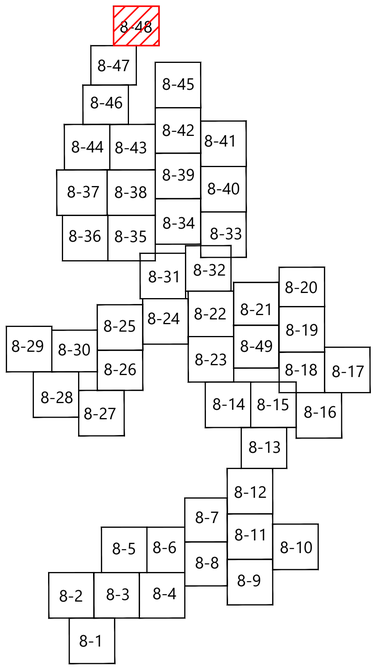
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

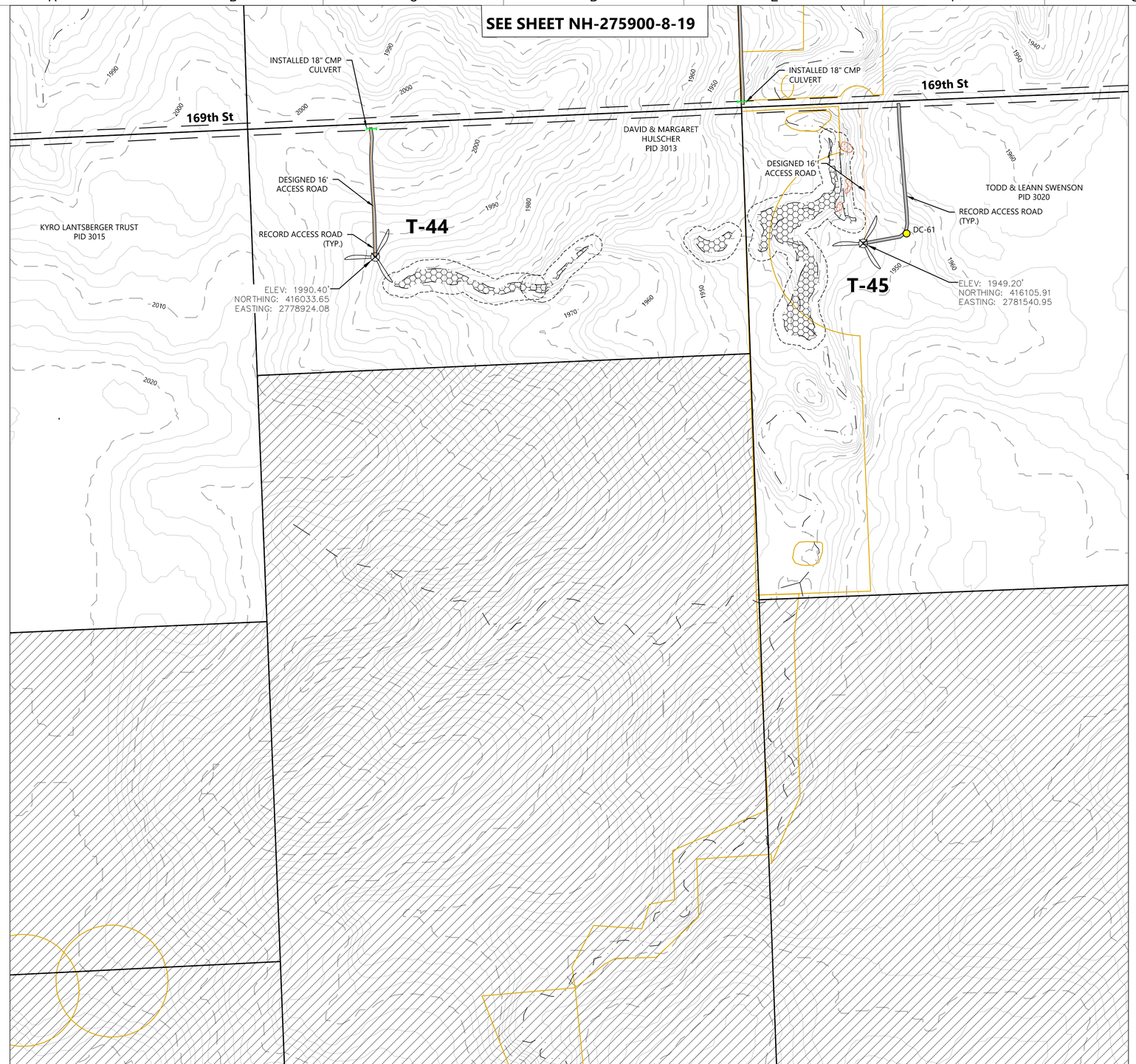
CIVIL SITE PLAN SUBSTATION

NH-275900-8-48

REV 1

SEE SHEET NH-275900-8-22

SEE SHEET NH-275900-8-19



SEE SHEET NH-275900-8-23

SEE SHEET NH-275900-8-18

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
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- EASEMENT LINES
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- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
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- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:

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392 COUNTY RD 50
AVON, MN 56310

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NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-44 T-45

NH-275900-8-49

REV 1

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
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- RECORD CULVERT
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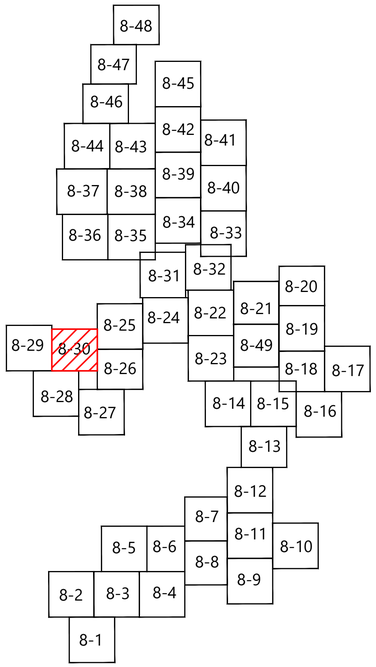
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

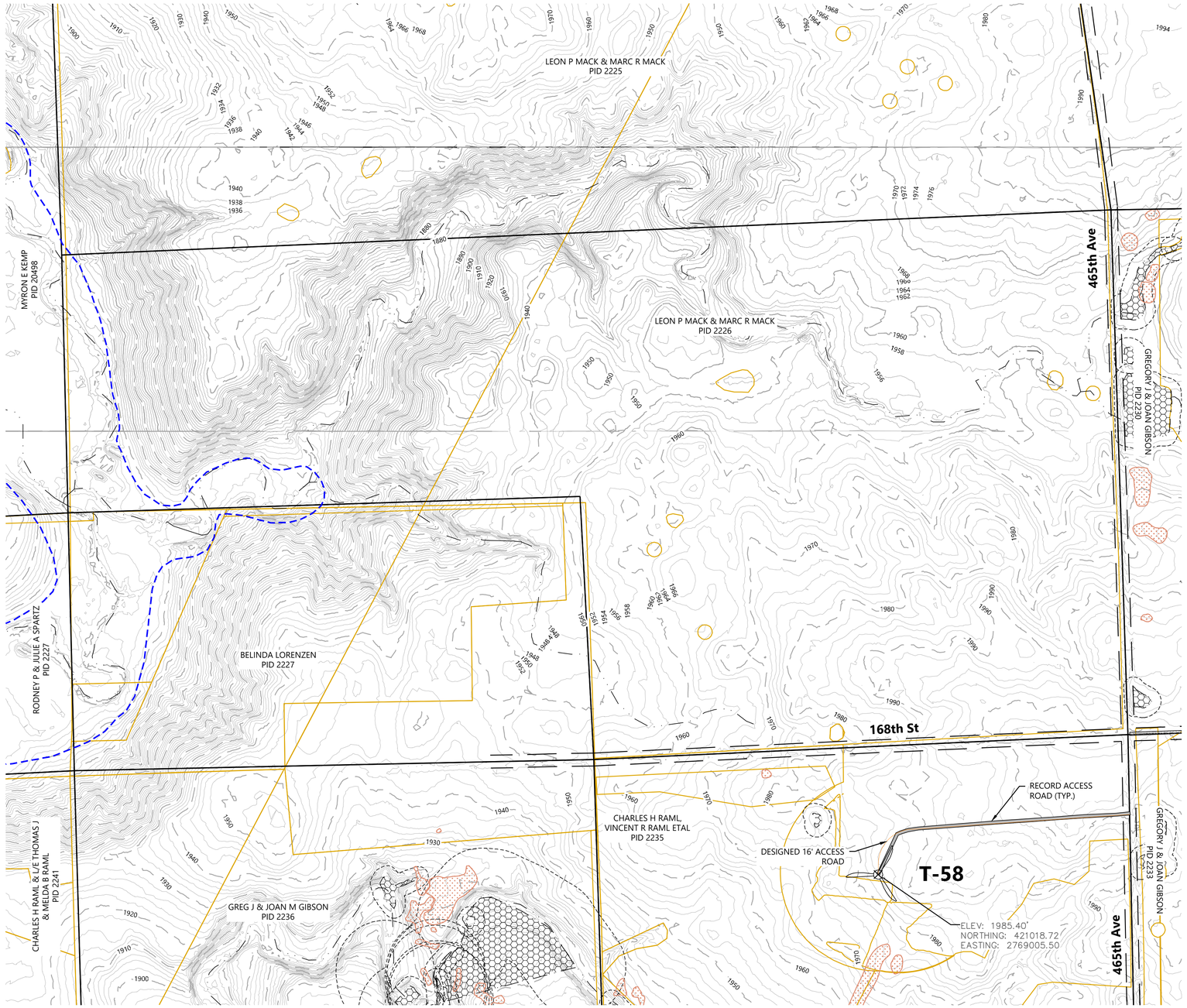
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-41

NH-275900-8-30

REV 1

SEE SHEET NH-275900-8-35



SEE SHEET NH-275900-8-32

SEE SHEET NH-275900-8-24

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
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- RECORD CULVERT
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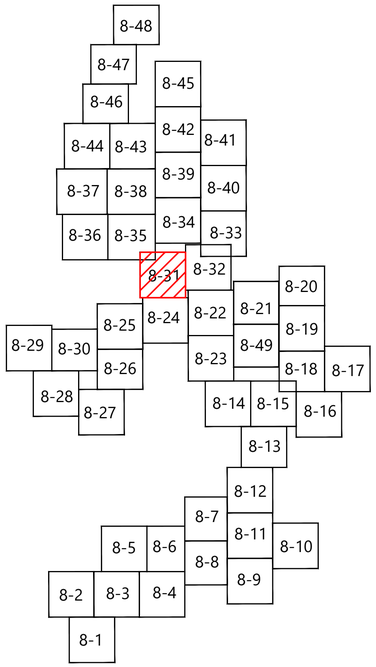

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-58

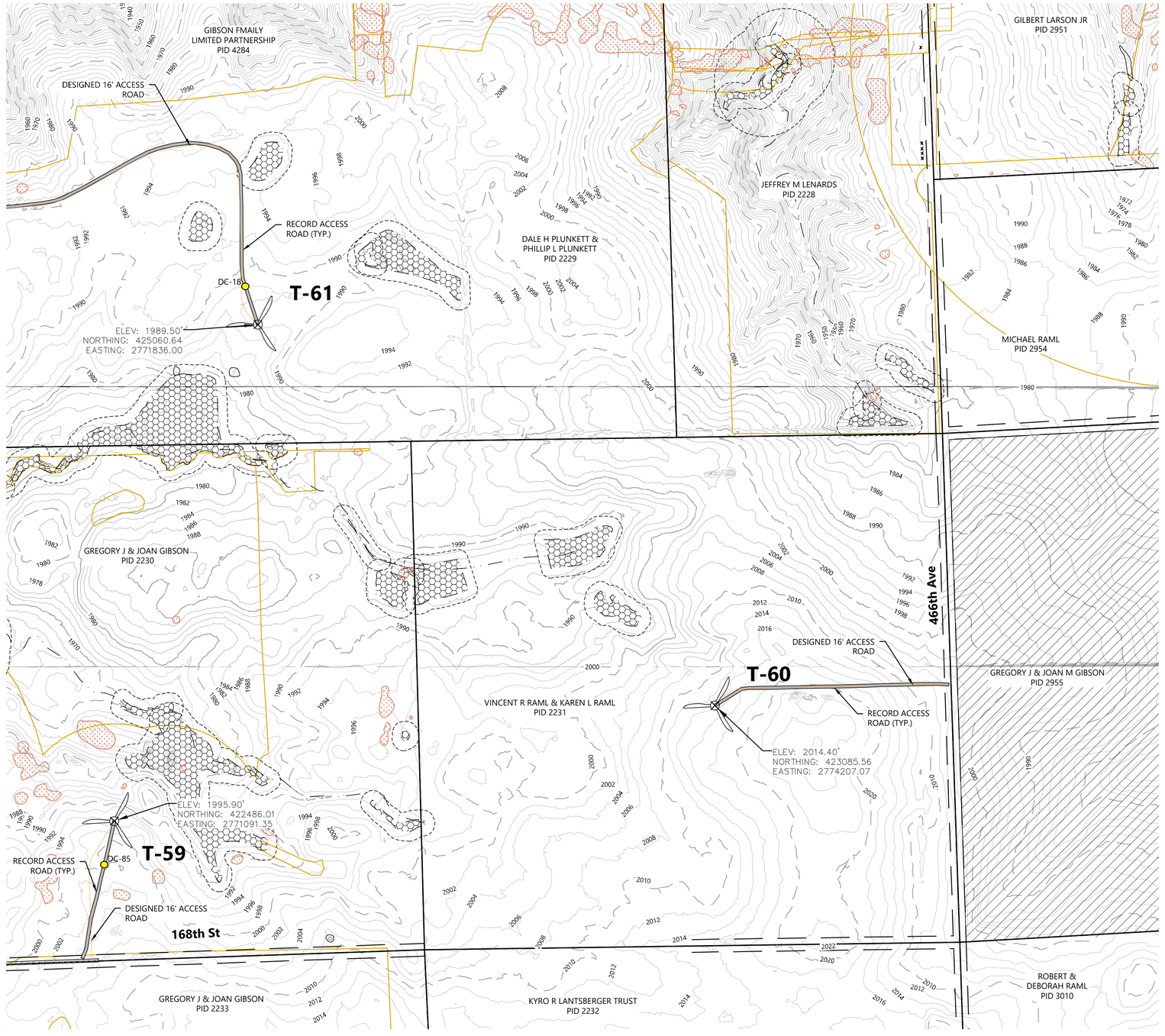
NH-275900-8-31

REV 1

SEE SHEET NH-275900-8-34

SEE SHEET NH-275900-8-33

SEE SHEET NH-275900-8-31



SEE SHEET NH-275900-8-22

LEGEND:

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- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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- RECORD CULVERT
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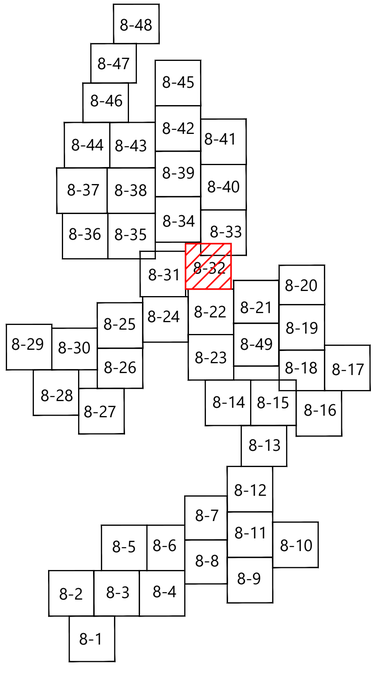
KEY MAP:



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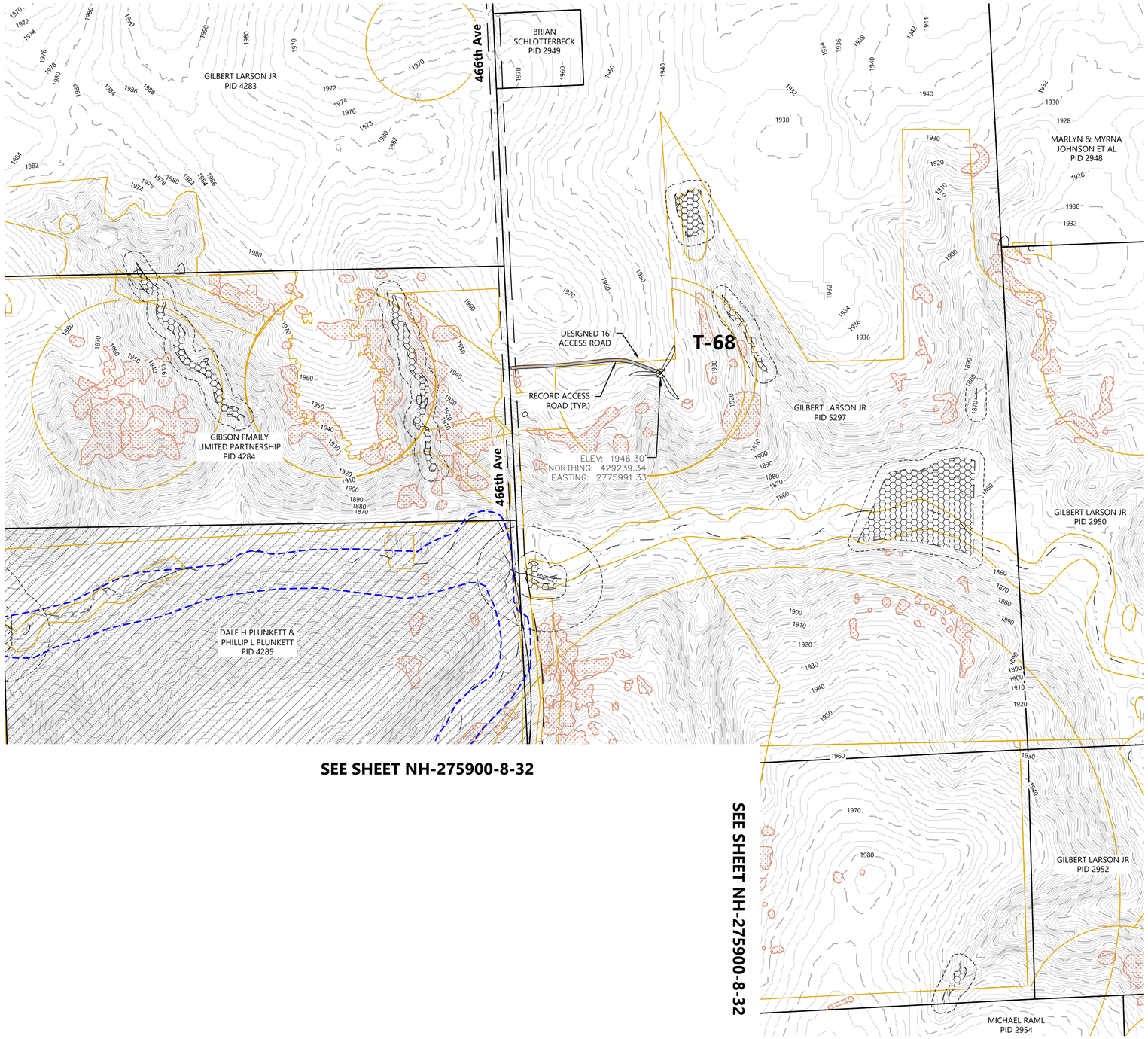
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-59, T-60, T-61

NH-275900-8-32

REV 1



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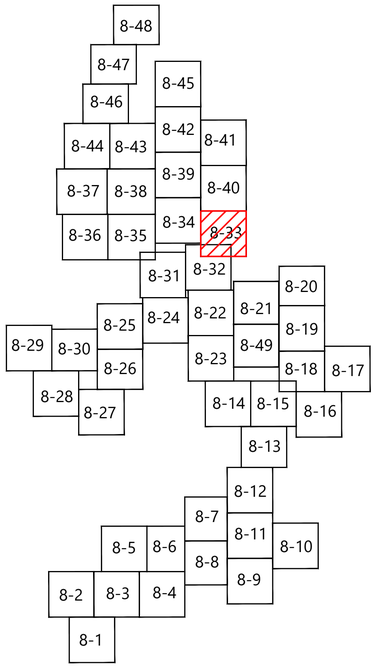
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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AVON, MN 56310

ISSUE FOR RECORD

NO	REVISION	ZONE	DATE	BY	CHK	ENG
0	ISSUED FOR CONSTRUCTION		05/29/2020	MDR	AA	MDR
1	ISSUED FOR RECORD - CROWNED RIDGE 22590		11/12/2020	MDR	AA	MDR

NO	REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS

DWG NO.	MANUFACTURER	DESCRIPTION

Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

DWN: MDR	DATE: 11/12/2020	CHK: AA	DATE: 11/12/2020
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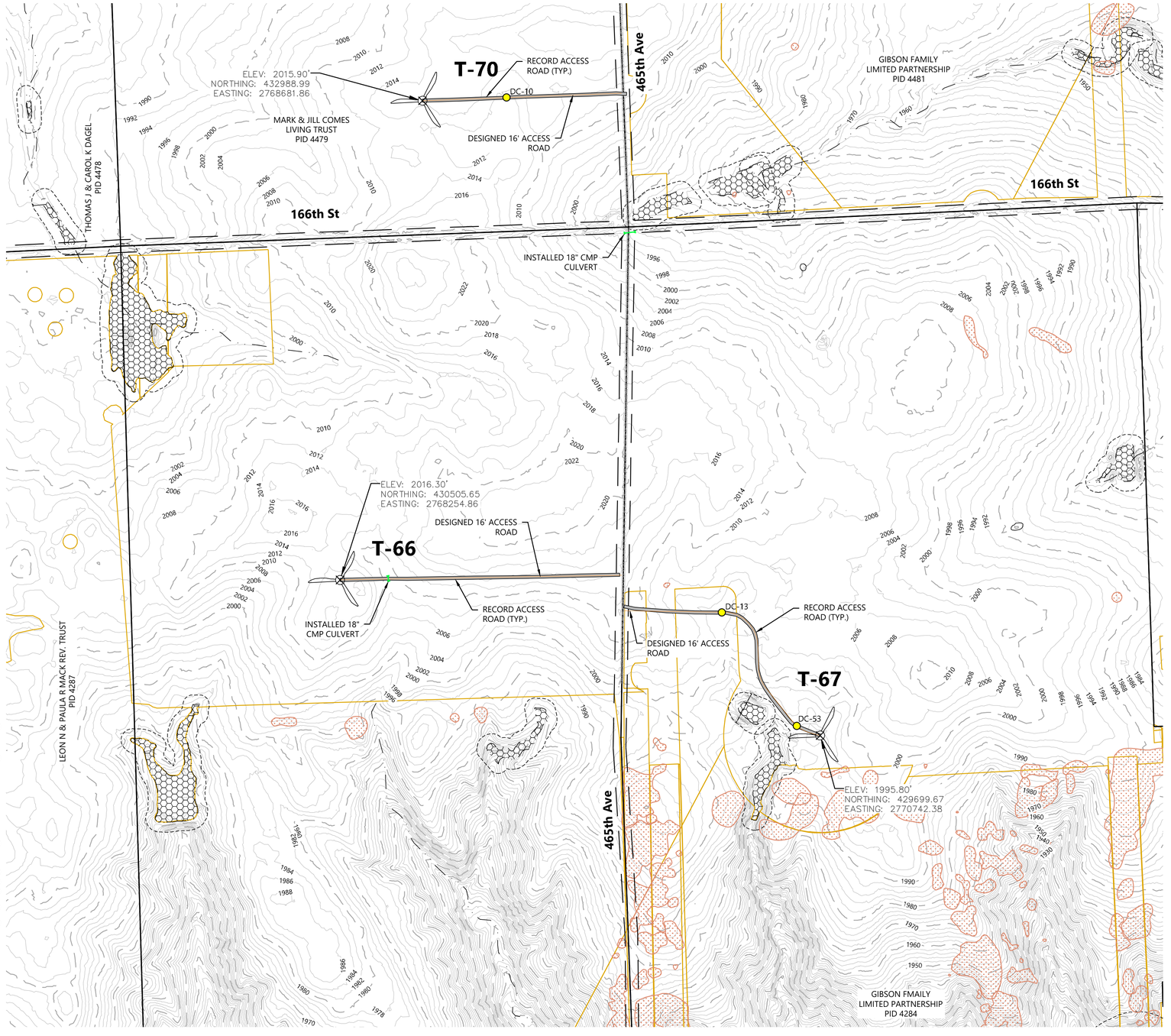
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-68

NH-275900-8-33

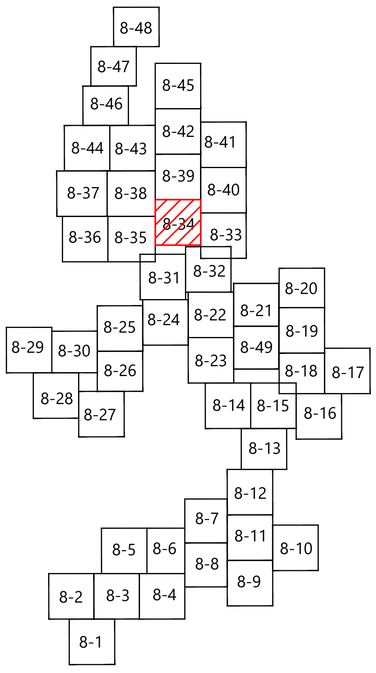
REV 1



LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- POH — EX. OVERHEAD POWER
- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:



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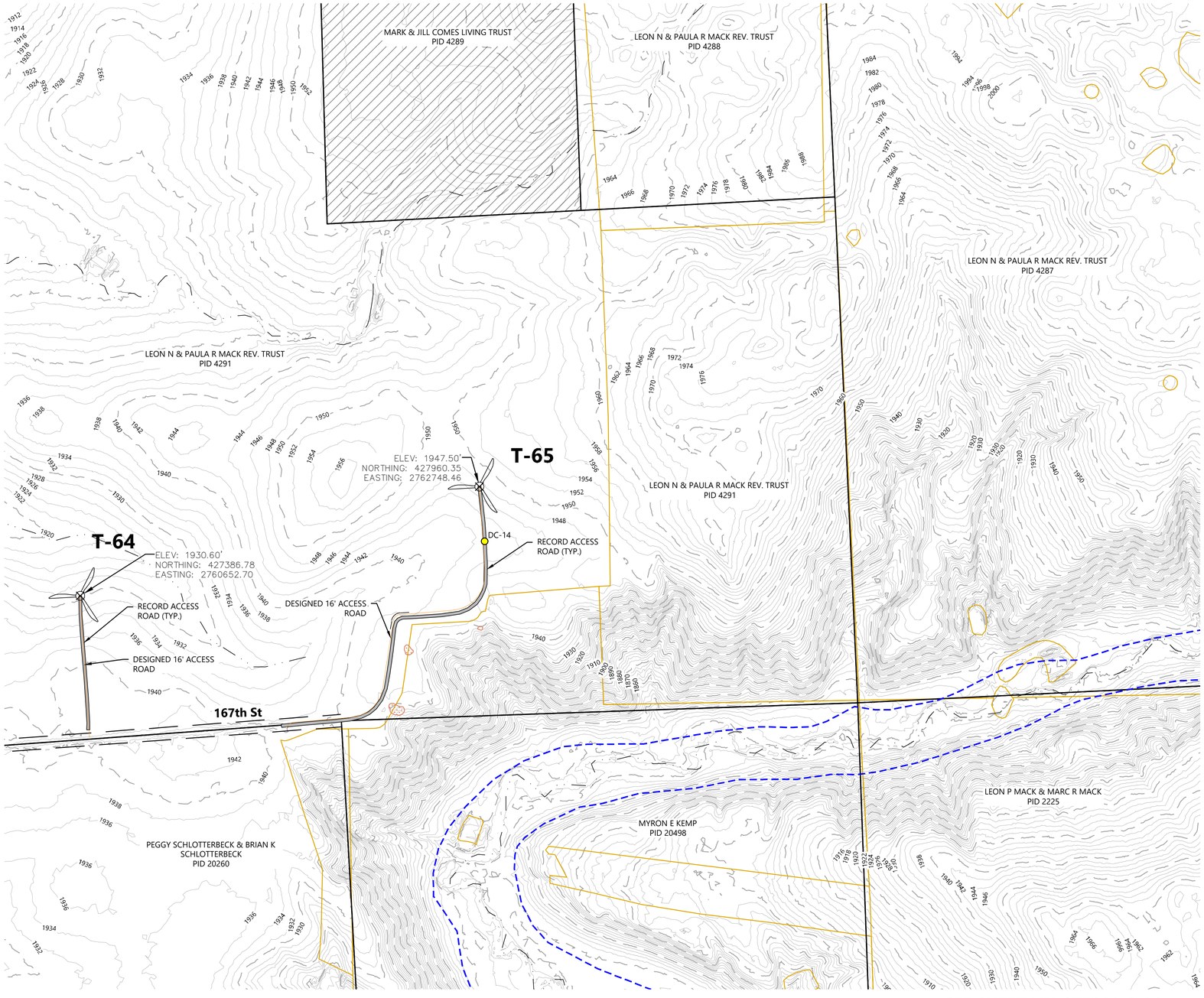
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-66, T-67, T-70

NH-275900-8-34 | REV 1

SEE SHEET NH-275900-8-38



SEE SHEET NH-275900-8-36

SEE SHEET NH-275900-8-34

SEE SHEET NH-275900-8-31

SEE SHEET NH-275900-8-31

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- DESIGNED UNDERGROUND COLLECTION (P-PUG)
- DESIGNED OVERHEAD TRANSMISSION (P-POH)
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. OVERHEAD POWER (POH)
- EX. GAS PIPELINE (GAS)
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- EX. INDEX CONTOUR (900)
- EX. INTERVAL CONTOUR (902)

KEY MAP:

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Xcel Energy®
NORTHERN STATES POWER COMPANY
CROWNED RIDGE II WIND FARM
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

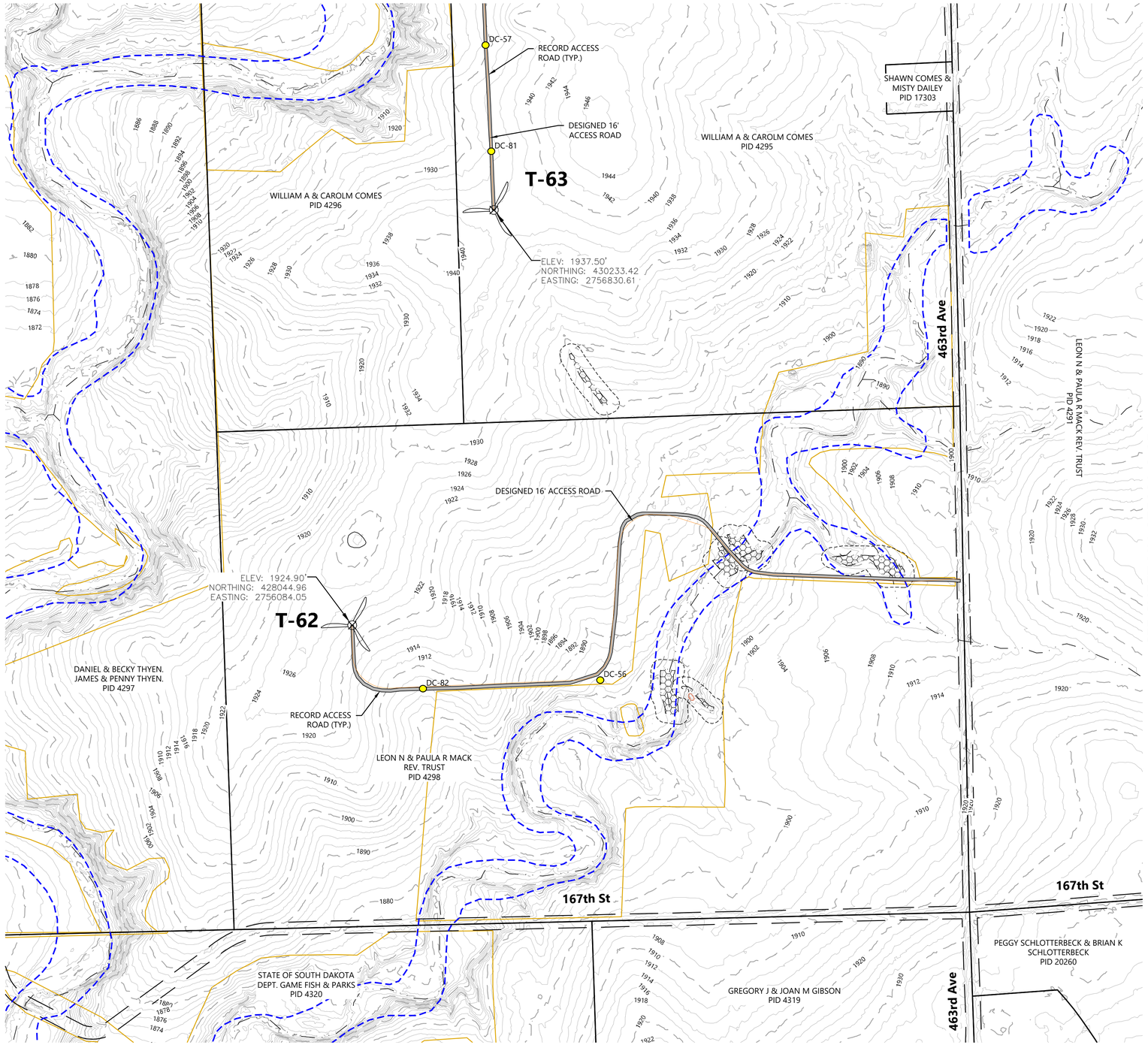
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-64, T-65

NH-275900-8-35

REV 1

SEE SHEET NH-275900-8-37



SEE SHEET NH-275900-8-35

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
- PROPERTY LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- POH — EX. OVERHEAD POWER
- GAS — EX. GAS PIPELINE
- EX. STREAM CHANNEL
- EX. WETLAND
- WATER SETBACK LINE
- FEMA FLOOD ZONE
- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
- ARCHEOLOGICAL AVOIDANCE AREA
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

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CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

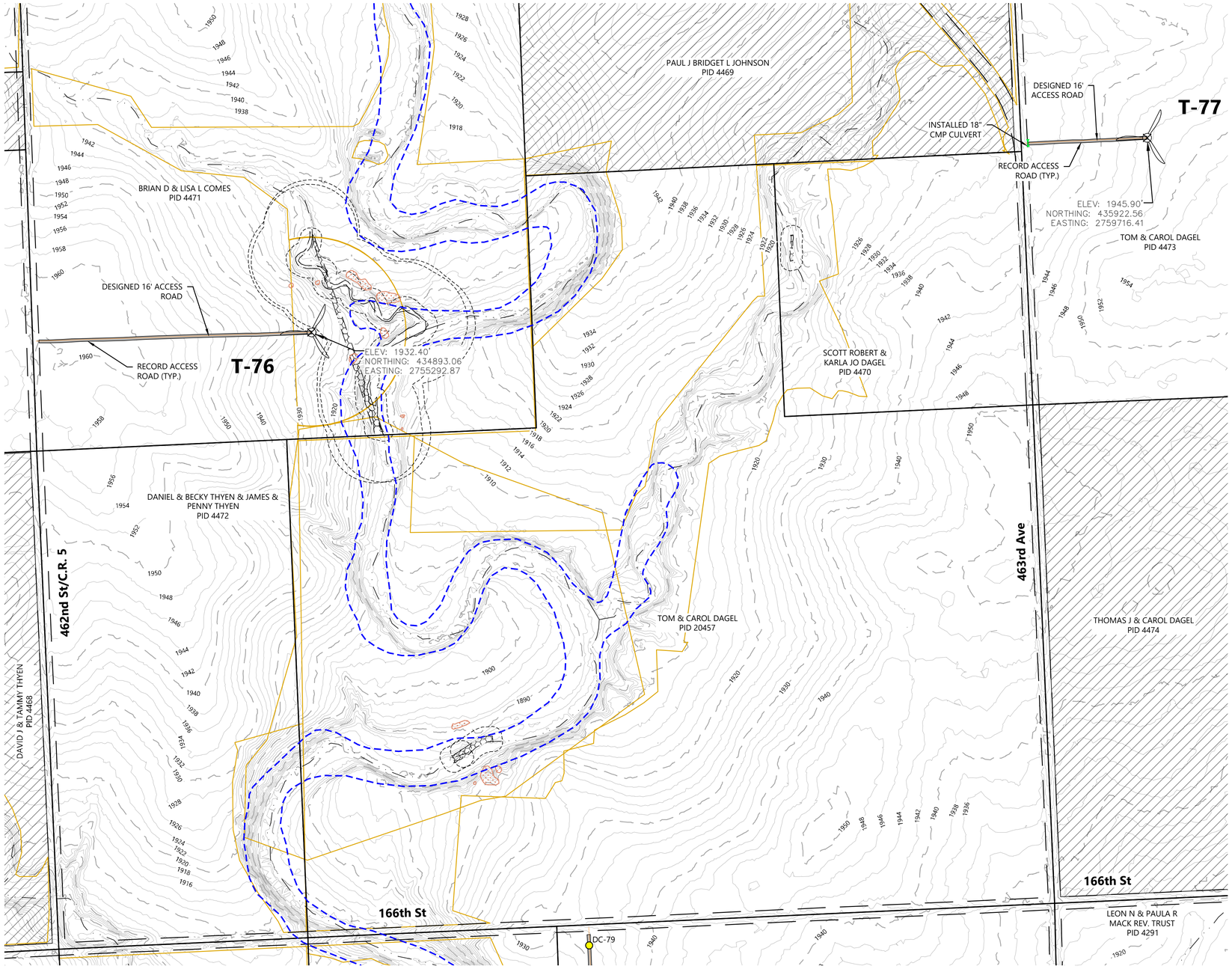
UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-62, T-63

NH-275900-8-36

REV 1

SEE SHEET NH-275900-8-44



SEE SHEET NH-275900-8-36

SEE SHEET NH-275900-8-38

LEGEND:

- T-# — RECORD TURBINE LOCATION
- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
- P-PUG — DESIGNED UNDERGROUND COLLECTION
- P-POH — DESIGNED OVERHEAD TRANSMISSION
- NON-PARTICIPATING LAND
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- EX. STREAM CHANNEL
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- PROTECTED WILDLIFE BUFFER LINE (FINAL BORDERS WILL BE DEFINED BY FINAL SWCA PLAN)
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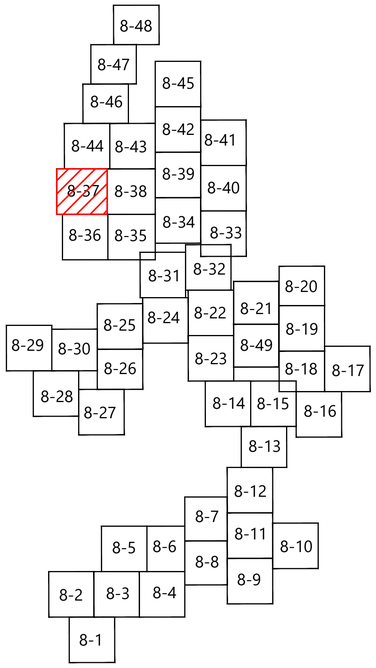
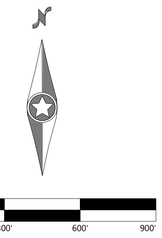
- EXISTING LAKE
- DC-XX — RECORD LOW WATER CROSSING
- RECORD CULVERT
- 900 — EX. INDEX CONTOUR
- 902 — EX. INTERVAL CONTOUR

KEY MAP:





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Xcel Energy®
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CROWNED RIDGE II WIND FARM
CODINGTON, DEUEL, GRANT COUNTIES, SOUTH DAKOTA

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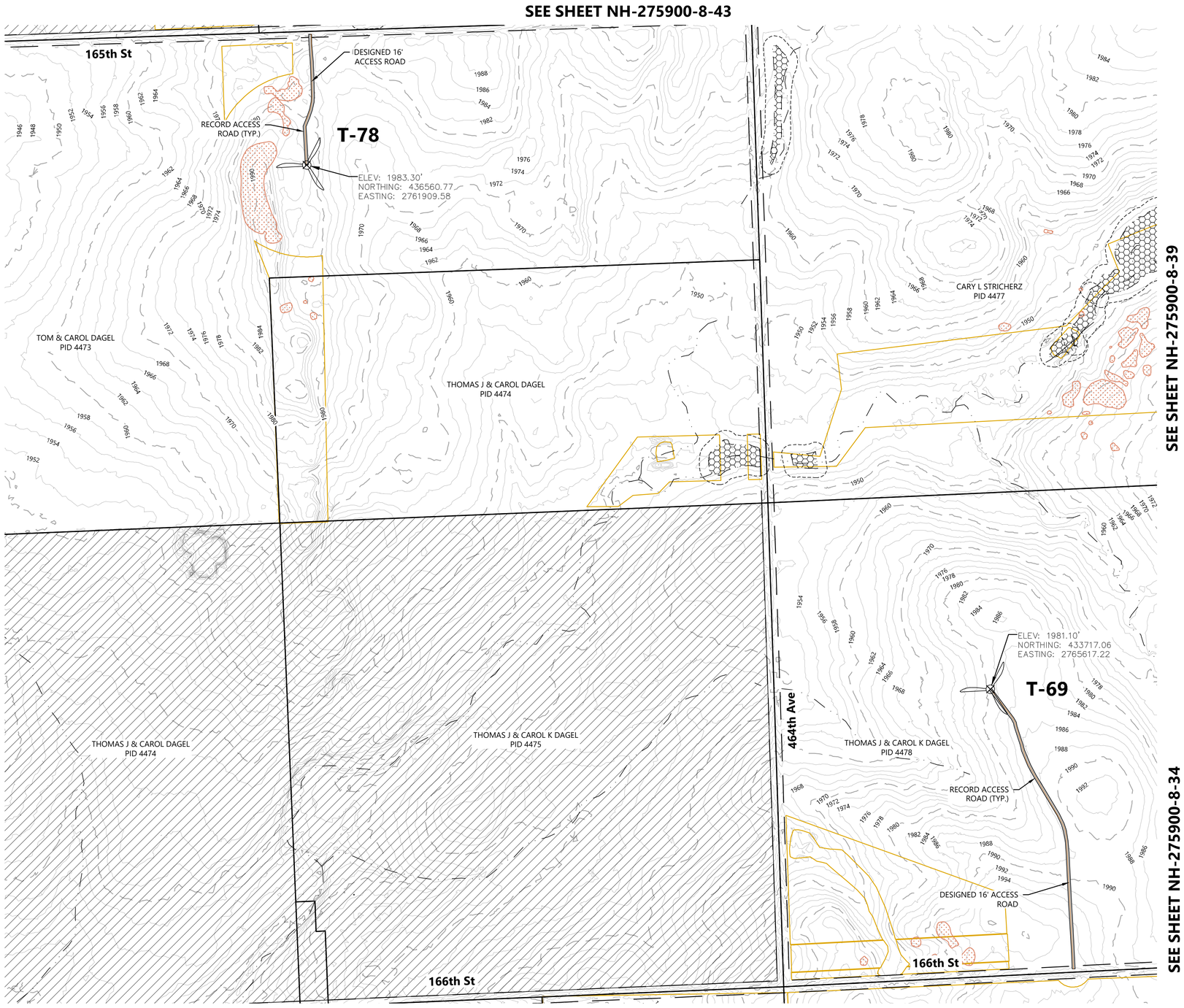
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-76, T-77

NH-275900-8-37

REV 1



LEGEND:

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- MET-XX — MET TOWER LOCATION
- ADLS — ADLS RADAR LOCATION
- DESIGNED ACCESS ROAD
- RECORD ACCESS ROAD
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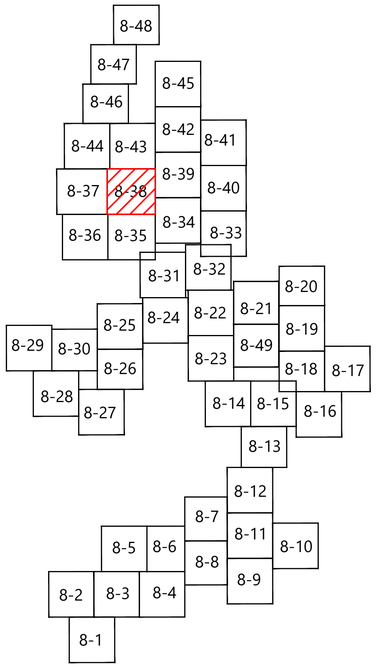
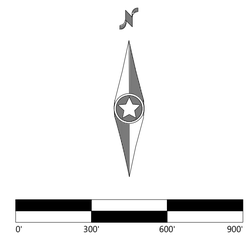
- 902 — EX. INTERVAL CONTOUR

KEY MAP:





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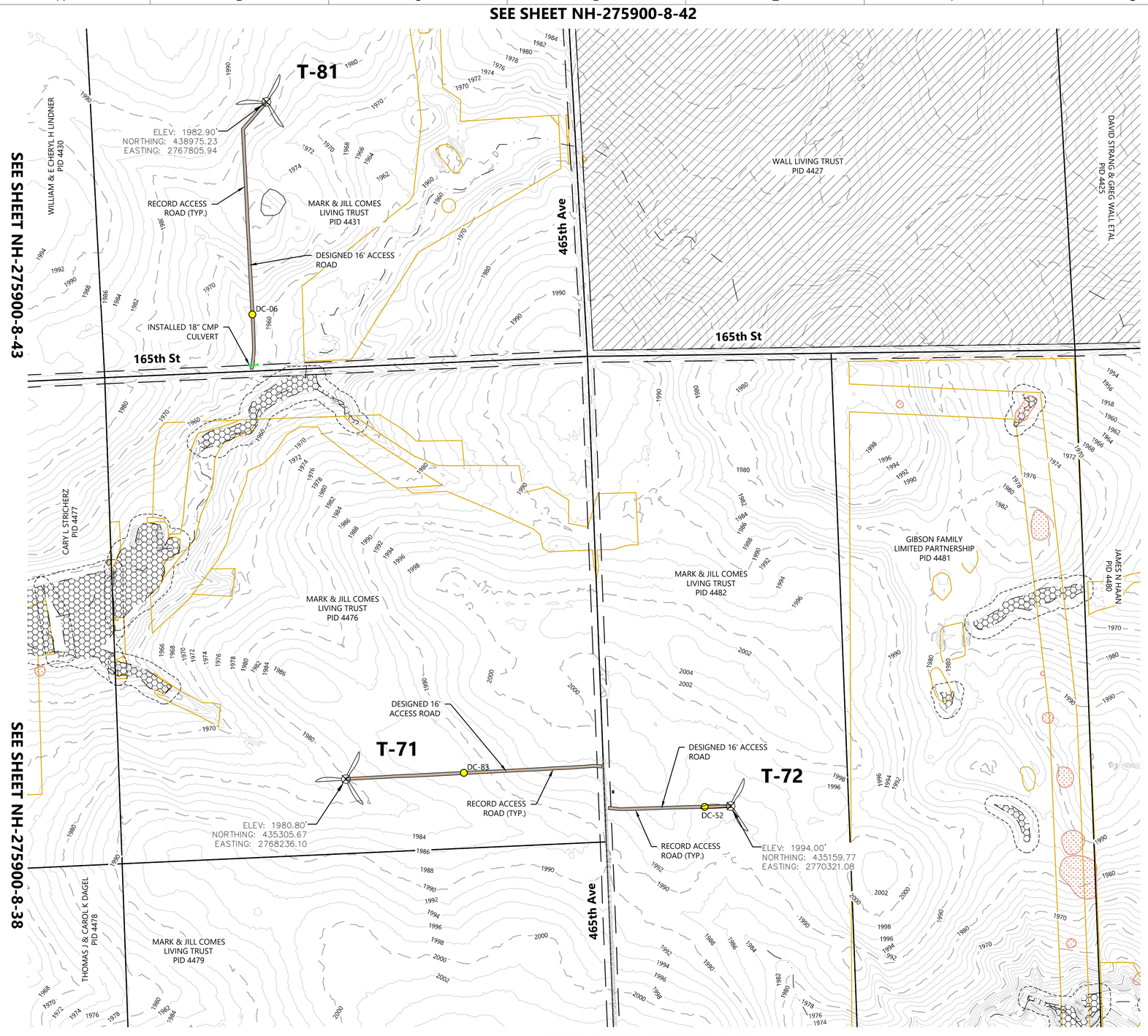
ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-69, T-78

NH-275900-8-38

REV 1



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- RECORD ACCESS ROAD
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- ARCHEOLOGICAL AVOIDANCE AREA
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- DC-XX — RECORD LOW WATER CROSSING
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- 900 — EX. INDEX CONTOUR
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ENERGY SUPPLY
ENGINEERING & CONSTRUCTION

UNIT 0
CIVIL ACCESS ROADS

CIVIL SITE PLAN T-71, T-72, T-81

NH-275900-8-39 | REV 1